

RRB Clerk Mains 2024 Memory Based

Directions (1-5): Study the following information carefully to answer the given questions.

Six persons, M, N, O, P, Q, and R, live in a three-storey building. The ground floor is numbered as 1, the floor just above it as 2, and the topmost floor as 3. Each floor has two flats, flat-1 and flat-2. Flat-1 of any floor is to the west of flat-2 of the same floor. Each person likes a different fruit: apple, banana, cherry, mango, orange, and watermelon. All information is not necessarily in the same order.

Q does not like Orange. M lives two floors above the one who likes Watermelon but both live in different numbered flat. One floor gap between P and the one who likes Orange. N lives north-east of the one who likes Orange. O lives below the one who likes Banana and above Q. M neither likes Mango nor Banana. O and N do not like Apple. The persons live in flat-1 do not like Cherry.

Q1. Who lives on the topmost floor in flat-2?

- (a) M
- (b) The one who likes Banana
- (c) O
- (d) The one who likes Apple
- (e) Q

Q2. Which of the following is true?

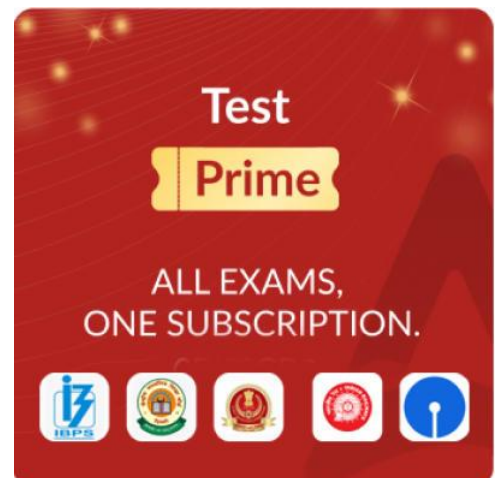
- I. O lives north-west of Q
 - II. R does not like Orange
 - III. P lives above the one who likes Mango
- (a) Both I and III
 - (b) Only II
 - (c) Both II and III
 - (d) Only I
 - (e) All I, II and III

Q3. How many floors gap between the ones who like Orange and Banana?

- (a) None
- (b) One
- (c) Either One or none
- (d) As same as between O and R
- (e) As same as between P and N

Q4. Which fruit does P like?

- (a) Cherry
- (b) Orange
- (c) Apple
- (d) Banana
- (e) Mango



Test Prime

ALL EXAMS,
ONE SUBSCRIPTION.

Logos of various exams: IBPS, SSC, UPSC, RRB, and others.

Q5. Who likes Cherry and where does the person live?

- (a) O, flat-1 of the second floor
- (b) R, flat-2 of the third floor
- (c) Q, flat-1 of the second floor
- (d) P, flat-1 of the first floor
- (e) N, flat-2 of the second floor

Q6. In the word 'EXHAUSTION', how many pairs of the letters have the same number of letters between them (both forward and backward direction) in the word as in the alphabet?

- (a) Four
- (b) Two
- (c) One
- (d) Three
- (e) More than four

Directions (7-9): In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

Q7. Statements: Only a few Pen is Book. All Book is Paper. No Notebook is Pen.

Conclusions:

- I. Some Notebook is Book.
 - II. Some Paper is not Notebook.
 - III. All Pen being Paper is a possibility.
- (a) Both II and III follows
 - (b) Either I or II follows
 - (c) Only III follows
 - (d) None follows
 - (e) Only II follows

Q8. Statements: Only Movie is Cinema. Only a few Movie is Drama. Some Drama is not Documentary.

Conclusions:

- I. Some Movie being Documentary is a possibility.
 - II. All Drama being Documentary is a possibility.
 - III. No Cinema is Documentary.
- (a) Both II and III follows
 - (b) Only III follows
 - (c) Either I or II follows
 - (d) None follows
 - (e) Both I and III follows

Q9. Statements: Only a few Car is Truck. All Truck is Vehicle. No Bike is Car.

Conclusions:

- I. Some Vehicle being Bike is a possibility.
- II. No Truck is Bike.
- III. All Car being Truck is a possibility.
- (a) Both II and III follows
- (b) Either I or II follows
- (c) Only III follows
- (d) Only I follows
- (e) Only II follows

Directions (10-14): Study the following information carefully and answer the questions.

Eight persons P, Q, R, S, T, U, V, and W were born in nine different years: 1936, 1945, 1950, 1962, 1967, 1975, 1984 and 1991. Their ages are calculated as of the base year 2000. All the information is not necessarily in the same order. The age difference between W and T is of 9 years. T is younger than W. Age of U is square of a number and is immediately elder than Q. S is 5 years elder than R. R is elder than P. V is not immediately younger than Q. Less than two persons are there between the ages of R and P.

Q10. In which among the following years T was born?

- (a) 1984
- (b) 1962
- (c) 1975
- (d) 1950
- (e) 1945

Q11. How many persons were born between the years in which V and U were born?

- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) None of these

Q12. What is the sum of the ages of Q, P, and W?

- (a) 92 years
- (b) 96 years
- (c) 94 years
- (d) 98 years
- (e) 99 years

Q13. Four of the following five are alike in a certain way and hence form a group. Who among the following does NOT belong to the group?

- (a) W
- (b) V
- (c) S
- (d) R
- (e) U

Q14. If S is related to W and in the same way, Q is related to R, then P is related to ____.

- (a) T
- (b) W
- (c) V
- (d) S
- (e) U

Directions (15-18): Study the following information carefully and answer the questions given below-

In alphabetical series A-Z, each letter except the vowels and letters – G, M, P and Q are assigned/ coded with single-digit odd numbers starting from 1 (for ex- B is coded as 1, C-3, D-5, F-7, H-9) and then again, those numbers are repeated (for ex- J is coded as 1, K-3, L-5, N-7 and R-9).

Conditions:

- I. If there are more than four consonants in a word then the code of P and Q will be coded as #. If there are less than four or four consonants in a word then the code of P and Q will be %.
- II. If the third letter from the left end of the word is vowel, then all the vowels present in the word is coded as @. If the third letter from the left end of the word is consonant, then all the vowels present in the word is coded as \$.
- III. If the number of letters in the word is even then first and last letter of the word is interchanged.
- IV. If the number of letters in the word is odd then first and last letter of the word remains same.
- V. The code of G is replaced by its place value according to English Alphabets.
- VI. If the place value of first letter of the word is an even number then M is coded as * and if the place value of first letter of the word is an odd number then M is coded as !.

(Condition is applied I – VI in the same order. If more than one condition is applied then, condition I is applied first after that II and so on.)

Q15. What is the code of “University”?

- (a) @1@1@35@77
- (b) 17@5@91@3@
- (c) @7@5@91@31
- (d) 71@1@15@7@
- (e) None of these

Q16. What is the code of “Happy Equilibrium”?

- (a) 9\$%%1 @##@7@19@@!
- (b) 53*%7 @%@@7@19@@!
- (c) 3%%%7 @#@@7@19**!
- (d) 9\$%@1 @#%*7@19@@!
- (e) 9\$%%1 @#@@5@19@@!

Q17. What is the code of “Alarming Effect”?

- (a) 75@9*@7@ 377\$3\$
- (b) @7@3!@17 \$77\$37
- (c) 75@9!@7@ 377\$3\$
- (d) 75@3*@1@ 377\$3\$
- (e) None of these

Q18. Which among the following represents the code of the word “#@@59@3@3”?

- (a) QUACKLED
- (b) PERFECTLY
- (c) MANUALLY
- (d) QUADRATIC
- (e) None of these

Directions (19-22): Study the following information carefully and answer the questions.

A certain number of persons sit in a row and face north. F sits fourth to the right of C. Two persons sit between F and K. The number of persons sit between H and F is thrice the number of persons sit between K and E. Five persons sit between C and H and H doesn't sit to the right of F. E doesn't sit to the left of F. Two persons sit between R and M who sits second from one of the extreme ends of the row. O sits sixth to the right of K. More than three persons sit between K and B. B sits exactly between H and C. R sits immediately to the right of E. As many persons sit to the right of E as to the left of B.

Q19. Who among the following sits sixth to the right of the person who sits tenth to the right of B?

- (a) R
- (b) M
- (c) K
- (d) O
- (e) None of these

Q20. How many persons sit between E and H?

- (a) Nineteen
- (b) Twelve
- (c) As many persons sit between C and M
- (d) As many persons sit between B and K
- (e) Sixteen

Q21. What is the difference between total numbers of persons sit in this row and total number of persons sit between F and E?

- (a) 18
- (b) 19
- (c) 25
- (d) 20
- (e) None of these

Q22. Which of the following statements is/are true?

- I. E sits exactly between K and M
 - II. Ten persons sit between C and O.
 - III. B sits eight to the left of K.
- (a) Only I
 - (b) Only II
 - (c) Only III
 - (d) Both II and III
 - (e) Both I and III

Directions (23-24): Each question below is followed by two statements, I and II. Decide whether the data provided in the statements are sufficient to answer the question. Select the correct option from the choices given below:

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Either statement I or II is sufficient
- (d) Both statements I and II together are sufficient
- (e) Both statements I and II together are not sufficient

Q23. Five boxes—D, E, F, G and H—are stacked one above the other in a stack. How many boxes are placed between Box E and Box F?

Statements:

- I. Box G is placed immediately below box H. Box G is placed two boxes above box D.
- II. Box F is placed below box D. Box E is placed above the box F. Box E is not placed at topmost position.

Q24. Ten persons are seated in two parallel rows with five seats in each row. In Row 1-A, B, C, D, and E are seated facing South. In Row 2 -P, Q, R, S and T are seated facing North. Who sits opposite to the person who sits second to the right of D?

Statements:

- I. A sits at one of the extreme ends of the row. B is seated immediately to the left of D. T sits opposite the person who sits second to the left of A. D doesn't sit opposite to T.
- II. A and C are immediate neighbours. R sits immediately to the left of Q. Two persons sit between Q and S. B and D are immediate neighbours.

Directions (25-29): Study the following information carefully and answer the questions.

Ten persons—F, G, H, I, J, K, L, M, N and O— were born in different months of the same year: January, March, April, May, June, July, September, October, November and December, but not necessarily in this order.

K was born in the month having 30 days. Four persons were born between J and M who was born immediately before K. L was born two months after J. There are three months between H and J. O was born four persons after H. More than two persons were born between F and O. G was born five months before I. I is not the youngest person.

Q25. Who among the following persons was born three persons before the person who was born six months before N?

- (a) I
- (b) F
- (c) L
- (d) H
- (e) None of these

Q26. In which of the following months M was born?

- (a) May
- (b) March
- (c) October
- (d) July
- (e) December

Q27. Which among the following statement(s) is/are true?

- (a) L was born in a month having even number of days.
- (b) F was born before J.
- (c) Even number of persons were not born between I and J.
- (d) O and L were born in consecutive months.
- (e) All are true

Q28. Who among the following person was born in the month of September?

- (a) The one who was born two months before J
- (b) The one who was born three months after G
- (c) The one who was born immediately before I
- (d) J
- (e) The one who was born two months before O

Q29. The number of persons born between I and J is two less than the number of persons born before ____.

- (a) O
- (b) K
- (c) F
- (d) G
- (e) N

Q30. In the number '6472365972', if all the even digits are added by 2 and all the odd digits are subtracted by 2 then find the sum of third digit from the right end and fourth digit from the left end in the new number formed after rearrangement?

- (a) 12
- (b) 7
- (c) 11
- (d) 9
- (e) 13

Directions (31-35): Study the following information carefully and answer the questions.

Six persons — A, B, C, D, E, and F — are seated in a circular arrangement and face inside. Each of them has a pet: Dog, Cat, Rabbit, Fish, Turtle, and Parrot. All the information is not necessarily in the same order.

Only one person sits between the person who has Parrot and D. The person who has Fish is one place away from D. B sits second to the left of the person who has Fish. The person who has Cat sits second to the right of the person who has Fish. E and F doesn't have a Parrot. The number of persons sits between B and D is same as the number of persons sit between the person who has Cat and E. The person who has turtle sits second to the right F. The person who has Dog sits second to the right of the person who has Parrot. The persons who have Dog and Cat are not immediate neighbours. C doesn't have a fish. E doesn't have a Rabbit

Q31. What is the position of the person who has Rabbit with respect to A?

- (a) Fifth to the right
- (b) Fifth to the left
- (c) Immediate left
- (d) Fourth to the right
- (e) Fourth to the left

Q32. Which among the following pair of persons sit opposite to each other?

- (a) The person who has Fish and F
- (b) The person who has Turtle and E
- (c) D and F
- (d) The persons who have Dog and Cat
- (e) None of these

Q33. How many persons sit between B and the Dog owner when counted anti-clockwise from B?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None

Q34. Who among the following person sits fourth to left of the person who sits immediately to the right of F?

- (a) The person who has Parrot
- (b) The person who has Fish
- (c) A
- (d) E
- (e) None of these

Q35. If all the person sits according to alphabetical order from A in anti – clockwise direction then position of how many persons remains unchanged (excluding A)?

- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) None

Directions (36-40): Study the following information carefully to answer the given questions:

Nine friends A, B, C, D, E, F, G, H and I sit in a straight row, but not necessarily in the same order. Some of them face North and some of them face South. D sits fourth to the right of C. A sits exactly between H and G who sits second to the left of E. D sits immediately to the left of E. Both C and E doesn't sit at the extreme ends of the row. I sits immediately to the right of G. D sits third to the right of B and both of them face the same direction. C and B are not immediate neighbours. H sits at one of the extreme ends. F and G face the same direction but opposite to A. The persons who sit at extreme ends face the same direction. Less than two persons sit between A and H. A and I face the opposite direction. H doesn't face north.

Q36. Who among the following sits third to the right of the person who sits immediately to the right of B?

- (a) A
- (b) G
- (c) I
- (d) D
- (e) C

Q37. How many persons who face south, sit between E and H?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) Five

Q38. Four of the following five are similar in a certain manner and form a group. Which one does not belong to the group?

- (a) A and G
- (b) D and E
- (c) B and A
- (d) F and H
- (e) D and C

Q39. If I and E interchange their positions, then who sits fifth to the left of E?

- (a) C
- (b) F
- (c) D
- (d) A
- (e) B

Q40. What is the position of the person who sits sixth to the right of F with respect to B?

- (a) Fifth to the left
- (b) Seventh to the left
- (c) Seventh to the right
- (d) Fifth to the right
- (e) None of these

Q41. What is unauthorized access with malicious intent commonly referred to as?

- (a) Phishing
- (b) Hacking
- (c) Data Mining
- (d) Spoofing
- (e) Firewall Breach

Q42. Which method is commonly used to steal your identity online?

- (a) Phishing
- (b) Data Encryption
- (c) Cloud Storage
- (d) Firewall
- (e) Debugging

Q43. In email communication, what do the terms CC and BCC stand for?

- (a) Current Copy and Blind Copy
- (b) Carbon Copy and Blind Carbon Copy
- (c) Central Communication and Backup Communication
- (d) Clear Copy and Backup Carbon Copy
- (e) Contact Copy and Blind Contact Copy

Q44. What typically happens when a system hangs or freezes?

- (a) CPU Overload
- (b) System Reboot
- (c) Blue Screen of Death (BSOD)
- (d) Application Crash
- (e) None of the above

Q45. Which of the following software is commonly used for sending and receiving emails?

- (a) Adobe Photoshop
- (b) Microsoft Word
- (c) Microsoft Outlook
- (d) VLC Media Player
- (e) AutoCAD

Q46. In a Gmail address, what does the "@" sign separate?

- (a) Username and password
- (b) Username and domain
- (c) Email ID and contact number
- (d) Sender and recipient
- (e) Local and international servers

Q47. In MS Excel, what remains visible constantly even if you move through rows and columns?

- (a) Headers
- (b) Freeze Panes
- (c) Gridlines
- (d) Active Cell
- (e) None of the above

Q48. Who is known as the father of computers?

- (a) Alan Turing
- (b) Steve Jobs
- (c) Bill Gates
- (d) Charles Babbage
- (e) John von Neumann



Q49. Which type of malware can self-replicate and propagate without needing a host program?

- (a) Virus
- (b) Worm
- (c) Trojan Horse
- (d) Spyware
- (e) Ransomware

Q50. Which of the following software is used to create and edit a document?

- (a) MS Excel
- (b) MS PowerPoint
- (c) MS Word
- (d) MS Access
- (e) Adobe Photoshop

Q51. What are the concentric circles on a hard disk called?

- (a) Sectors
- (b) Clusters
- (c) Blocks
- (d) Tracks
- (e) Cylinders

Q52. FORTRAN belong to which category of programming languages?

- (a) Assembly Language
- (b) Machine Language
- (c) High-Level Language
- (d) Scripting Language
- (e) Low-Level Language

Q53. Which of the following is used to convert a hard copy document into a digital copy?

- (a) Printer
- (b) Monitor
- (c) Scanner
- (d) CPU
- (e) Keyboard

Q54. Which of the following shortcut keys is used to select all the content in a document?

- (a) Ctrl + C
- (b) Ctrl + X
- (c) Ctrl + A
- (d) Ctrl + S
- (e) Ctrl + V

Q55. Which shortcut key is used to jump to the beginning of a document in MS Word?

- (a) Ctrl + Home
- (b) Ctrl + End
- (c) Ctrl + B
- (d) Alt + Tab
- (e) Shift + Home

Q56. Which of the following devices or software is commonly used for wireless file transfer within a small range?

- (a) USB Cable
- (b) Bluetooth
- (c) Ethernet
- (d) HDMI
- (e) CD-ROM

Q57. What is the primary function of a firewall in a computer network?

- (a) Monitor CPU performance
- (b) Block unauthorized access
- (c) Increase internet speed
- (d) Store data
- (e) Manage software updates

Q58. What is the shortcut key to save a document in MS Word?

- (a) Ctrl + P
- (b) Ctrl + S
- (c) Ctrl + A
- (d) Ctrl + Z
- (e) Ctrl + X

Q59. Word processors and spreadsheet applications belong to which category of software?

- (a) System Software
- (b) Utility Software
- (c) Application Software
- (d) Security Software
- (e) Firmware

Q60. The unit of the timer watch fitted into the microprocessor is measured in?

- (a) Volts
- (b) Amperes
- (c) Hertz
- (d) Ohms
- (e) Joules

Q61. Which of the following primarily stores data temporarily in a computer?

- (a) CPU
- (b) CD-ROM
- (c) RAM
- (d) Flash Drive
- (e) ROM

Q62. Ctrl and Alt are examples of what type of keys in a keyboard?

- (a) Function Keys
- (b) Modifier Keys
- (c) Navigation Keys
- (d) Toggle Keys
- (e) Numeric Keys

Q63. What is the rectangular area of the computer screen used for displaying information and running programs called?

- (a) Taskbar
- (b) Menu Bar
- (c) Window
- (d) Desktop
- (e) Toolbar

Q64. Which of the following is not a threat to computers?

- (a) SQL Injection
- (b) Burn
- (c) DOS Attack
- (d) Phishing
- (e) Power Surge

Q65. In the term CISC, what does the letter I stand for?

- (a) Internet
- (b) Integration
- (c) Instruction
- (d) Information
- (e) Interface

Q66. Convert the decimal number 15 into a binary number.

- (a) 1001
- (b) 1100
- (c) 1010
- (d) 1111
- (e) 1000

Q67. India's first computer was installed in which city?

- (a) Mumbai
- (b) Kolkata
- (c) Bengaluru
- (d) Delhi
- (e) Chennai

Q68. Which of the following is the search engine developed by Microsoft?

- (a) Google
- (b) Yahoo
- (c) Bing
- (d) DuckDuckGo
- (e) Baidu

Q69. Who is known as the father of the Internet?

- (a) Tim Berners-Lee
- (b) Vint Cerf
- (c) Bill Gates
- (d) Steve Jobs
- (e) Marc Andreessen

Q70. Which of the following is not a type of printer?

- (a) Word Matrix
- (b) Dot Matrix
- (c) Laser
- (d) Inkjet
- (e) Thermal

Q71. Which shortcut key is used to find and replace text in a document?

- (a) Ctrl + F
- (b) Ctrl + H
- (c) Ctrl + R
- (d) Ctrl + G
- (e) Ctrl + P

Q72. What is half a byte called?

- (a) Nibble
- (b) Bit
- (c) Word
- (d) Kilobyte
- (e) Megabyte

Q73. Which shortcut key is used to add a new slide in Microsoft PowerPoint?

- (a) Ctrl + N
- (b) Ctrl + M
- (c) Ctrl + S
- (d) Ctrl + P
- (e) Ctrl + T

Q74. Which of the following is the fastest type of memory?

- (a) CD
- (b) DVD
- (c) SSD
- (d) Flash Drive
- (e) Hard Disk

Q75. Which of the following is the shortcut key to refresh a web page?

- (a) Ctrl + F6
- (b) Ctrl + R
- (c) Ctrl + F
- (d) Alt + F4
- (e) Shift + R

Q76. Which of the following is a feature of a Dot Matrix Printer?

- (a) Coloured Printing
- (b) High-Resolution Printing
- (c) Prints Multiple Copies using Carbon Paper
- (d) Quiet Printing
- (e) Laser Precision

Q77. From which of the following tabs in MS PowerPoint can you add a table, chart, or picture?

- (a) Home
- (b) Insert
- (c) Design
- (d) View
- (e) Review

Q78. Which feature groups emails with the same subject line into a conversation in email clients?

- (a) Spam Filter
- (b) Conversation View
- (c) Thread Sorting
- (d) Email Archiving
- (e) Priority Inbox

Q79. Which feature automatically fills in information on web pages?

- (a) Autofill
- (b) Cache
- (c) Cookies
- (d) Bookmark
- (e) Pop-up Blocker

Q80. Which of the following is a popular open-source operating system?

- (a) Windows
- (b) macOS
- (c) Linux
- (d) iOS
- (e) Splunk

Q81. Which leading fintech unicorn recently announced the launch of its own UPI infrastructure named "UPI Switch", developed in partnership with Airtel Payments Bank, aiming to improve success rates by 4-5% and handle up to 10,000 transactions per second (TPS)?

- (a) Paytm
- (b) PhonePe
- (c) Razorpay
- (d) BharatPe
- (e) MobiKwik

Q82. In which city did the Indian women's badminton team, led by a stellar performance from Anmol Kharb, defeat Thailand 3-2 to win their maiden gold medal at the Badminton Asia Team Championships?

- (a) Shah Alam, Malaysia
- (b) Jakarta, Indonesia
- (c) Bangkok, Thailand
- (d) Singapore City, Singapore
- (e) Kuala Lumpur, Malaysia

Q83. As per the recent update by the Insurance Regulatory and Development Authority of India (IRDAI), effective from April 1, 2024, what was the previous maximum age limit for purchasing new health insurance policies before it was removed?

- (a) 50 years
- (b) 55 years
- (c) 60 years
- (d) 65 years
- (e) 70 years

Q84. With the recent 'Navratna' status granted to the Indian Renewable Energy Development Agency (IREDA), what is the investment autonomy limit granted to Navratna Public Sector Enterprises (PSEs)?

- (a) ₹500 crore
- (b) ₹750 crore
- (c) ₹2,000 crore
- (d) ₹1,500 crore
- (e) ₹1,000 crore

Q85. In the recently launched digital health promoter prototype S.A.R.A.H. by the World Health Organization (WHO), powered by generative AI, what does the letter "S" stand for?

- (a) Systematic
- (b) Strategic
- (c) Smart
- (d) Specialized
- (e) Sustainable

Q86. The Indian Premier League, also known as the TATA IPL for sponsorship reasons, is a men's Twenty20 cricket league held annually in India. In the context of IPL 2024, which one of the following captain-team pairings is NOT correctly matched?

- (a) Sanju Samson - Rajasthan Royals
- (b) Rishabh Pant - Delhi Capitals
- (c) Shreyas Iyer - Kolkata Knight Riders
- (d) Ruturaj Gaikwad - Sunrisers Hyderabad
- (e) Shubman Gill - Gujarat Titans

Q87. Which Indian public sector company was recently awarded the "Outstanding PSU of the Year" at the All India Management Association (AIMA) Managing India Awards, presented by Vice-President Jagdeep Dhankhar?

- (a) Bharat Electronics Limited (BEL)
- (b) Hindustan Aeronautics Limited (HAL)
- (c) Oil and Natural Gas Corporation (ONGC)
- (d) Steel Authority of India (SAIL)
- (e) Bharat Heavy Electricals Limited (BHEL)

Q88. Which city is famously known as the "Diamond City of India"?

- (a) Ahmedabad
- (b) Vadodara
- (c) Rajkot
- (d) Surat
- (e) Jamnagar

Q89. Consider the following statements regarding the Attorney General of India (AGI):

1. The Attorney General is the chief legal advisor to the Union Government and represents it in the Supreme Court and High Courts.
2. The Attorney General of India is a part of the Central Cabinet and looks after all legal matters at the government level.
3. The Attorney General is a part of the Union Executive but is not a member of the Central Cabinet.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1 and 3 only
- (e) All of the above

Q90. Consider the following statements regarding the Jeevan Raksha Padak Awards:

1. The awards were instituted in 1961 as part of the Ashoka Chakra series of Gallantry awards.
2. The **Sarvottam Jeevan Raksha Padak** is awarded for courage in saving life under circumstances of grave bodily injury to the rescuer.
3. The awards can be conferred posthumously and are open to persons of either sex in all walks of life.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3
- (e) 1 only

Q91. Which of the following are major sources of funding for Self-Help Groups (SHGs) in India?

1. Bank Linkage Program (SHG-BLP)
2. National Rural Livelihood Mission (NRLM)
3. Microfinance Institutions (MFIs)
4. Corporate Social Responsibility (CSR) Initiatives
5. Internal Savings and Lending by SHG Members

- (a) 1, 2, and 3 only
- (b) 1, 3, 4, and 5 only
- (c) 1, 2, 3, and 4 only
- (d) 2, 3, 4, and 5 only
- (e) All of the above

Q92. Under the Trade Related Entrepreneurship Development Assistance Scheme (TREAD), what percentage of the loan or credit sanctioned is provided as a grant by the Government of India to NGOs for capacity-building activities aimed at economic empowerment of women?

- (a) 10%
- (b) 20%
- (c) 30%
- (d) 40%
- (e) 50%

Q93. What is the name of the Stage-2 engine of the Vikram-1 space launch vehicle, successfully test-fired by Skyroot Aerospace at the Indian Space Research Organisation's (ISRO) Satish Dhawan Space Centre?

- (a) Agni-2
- (b) Prithvi-250
- (c) PSLV-C50
- (d) Kalam-250
- (e) Chetak-200

Q94. Rezwana Choudhury Bannya, the founding chair of the Department of Dance at a university and the founder of the music school "Shurer Dhara" in Dhaka, received the Padma Shri award for her contributions in which field?

- (a) Literature
- (b) Social Work
- (c) Art
- (d) Science and Technology
- (e) Sports

Q95. Under the Deendayal Antyodaya Yojana – National Rural Livelihoods Mission (DAY-NRLM), which of the following forms of funding support are provided to Self Help Groups (SHGs) and their federations to empower them?

- (a) Interest-Free Loans and Government Grants
- (b) Revolving Fund (RF) and Microcredit Loans
- (c) Revolving Fund (RF) and Community Investment Fund (CIF)
- (d) Direct Subsidies and Seed Funding
- (e) Government Grants and Loan Waivers

Q96. The Indian government has launched the CDP-SURAKSHA digital platform to streamline the distribution of subsidies under the Cluster Development Programme (CDP). This programme is primarily aimed at promoting which sector in India?

- (a) Information Technology
- (b) Horticulture
- (c) Livestock
- (d) Fisheries
- (e) Dairy Farming

Q97. The Global Risk Report, which highlights the major global risks expected to impact the world over the coming years, is released by which organization?

- (a) International Monetary Fund (IMF)
- (b) United Nations Development Programme (UNDP)
- (c) World Economic Forum (WEF)
- (d) World Bank
- (e) Organisation for Economic Co-operation and Development (OECD)

Q98. The Tattvabodhini Sabha, a significant group aimed at promoting the study and discussion of religious and philosophical ideas, was founded in 1839 by which of the following individuals?

- (a) Ishwar Chandra Vidyasagar
- (b) Raja Ram Mohan Roy
- (c) Swami Vivekananda
- (d) Debendranath Tagore
- (e) Keshab Chandra Sen

Q99. Who was elected to serve as the President of the 79th Session of the United Nations General Assembly (UNGA) in June 2024?

- (a) António Guterres
- (b) Philemon Yang
- (c) Volkan Bozkır
- (d) Ban Ki-moon
- (e) Maria Fernanda Espinosa

Q100. Delhi Metro Rail Corporation (DMRC) has partnered with which bank to facilitate digital payment solutions, including the processing of National Common Mobility Card (NCMC) transactions for its commuters? (July 2024)

- (a) Airtel Payments Bank
- (b) ICICI Bank
- (c) HDFC Bank
- (d) Paytm Payments Bank
- (e) State Bank of India

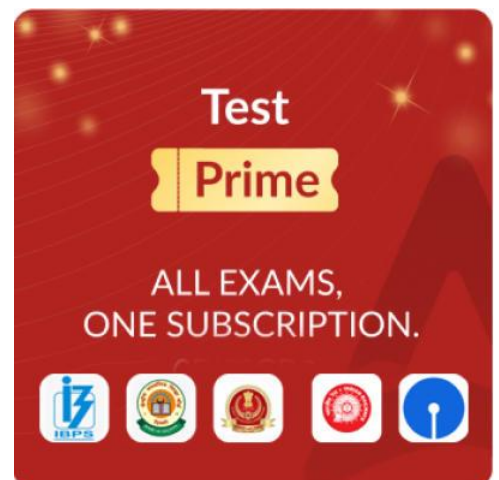
Q101. India's net direct tax collections for the financial year 2023-24 grew by 17.7%, reaching which of the following figures, surpassing the revised estimates set in the Union Budget?

- (a) ₹16.23 lakh crore
- (b) ₹17.45 lakh crore
- (c) ₹19.58 lakh crore
- (d) ₹20.80 lakh crore
- (e) ₹22.05 lakh crore

Q102. Medaram Jatara, one of the largest tribal festivals in India, is celebrated in which state?

- (a) Karnataka
- (b) Andhra Pradesh
- (c) Odisha
- (d) Telangana
- (e) Chhattisgarh

Q103. According to the World Silver Survey 2024, which Indian company has become the third-largest silver producer globally and operates the second-largest silver-producing mine? (April 2024)



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- (a) Tata Steel
- (b) Hindustan Zinc Limited
- (c) Steel Authority of India Limited
- (d) NMDC Limited
- (e) JSW Steel

Q104. NABARD has partnered with the Reserve Bank Innovation Hub's (RBIH) to integrate its e-KCC loan origination system with the public tech platform for frictionless credit (PTPFC). Which of the following institutions will benefit from this integration in processing Kisan Credit Card (KCC) loans?

- 1. District Cooperative Banks
 - 2. State Cooperative Banks
 - 3. Regional Rural Banks (RRBs)
 - 4. Private Banks
 - 5. Urban Cooperative Banks
- (a) 1, 2, and 3 only
 - (b) 1, 3, and 4 only
 - (c) 2, 4, and 5 only
 - (d) 1, 4, and 5 only
 - (e) 1 and 2 only

Q105. In which year were electronic voting machines (EVMs) first introduced in India?

- (a) 1967
- (b) 1970
- (c) 1982
- (d) 1991
- (e) 1998

Q106. Peter Higgs was awarded the Nobel Prize in Physics for his groundbreaking theoretical work leading to the discovery of which fundamental concept in particle physics?

- (a) Gravitational waves
- (b) Theory of relativity
- (c) God particle
- (d) Quantum mechanics
- (e) String theory

Q107. Microsoft unveiled (April 2024) the latest version of its lightweight AI model. What is the name of this small language model that can run locally on devices without an internet connection?

- (a) GPT-4 Turbo
- (b) Llama 2
- (c) BERT
- (d) Phi-3-Mini
- (e) AlphaFold

Q108. Which of the following statements regarding the Public Provident Fund (PPF) Scheme is/are correct?

1. The minimum deposit required per financial year in a PPF account is ₹500, while the maximum deposit allowed is ₹1.5 lakh.
 2. A loan facility can be availed from the 3rd financial year up to the 6th financial year.
 3. After maturity, a PPF account can be extended for 10 years without further deposits.
- (a) Only 1 is correct
(b) Only 1 and 2 are correct
(c) Only 2 and 3 are correct
(d) Only 1 and 3 are correct
(e) All the statements are correct

Q109. NABARD has supported several region-specific products in obtaining Geographical Indication (GI) tags, benefiting artisans and producers across India. How many products supported by NABARD have received GI tags so far?

- (a) 120
(b) 139
(c) 144
(d) 157
(e) 162

Q110. What is the total corpus of the Fund of Funds for Startups (FFS) Scheme established by the Government of India to support the Indian startup ecosystem?

- (a) ₹5,000 crore
(b) ₹7,500 crore
(c) ₹10,000 crore
(d) ₹15,000 crore
(e) ₹20,000 crore

Q111. Indian Farmers Fertiliser Cooperative Limited (IFFCO) is one of the world's largest cooperative societies, known for its extensive international operations in the fertilizer sector. In which of the following countries does IFFCO not have operations?

- (a) Oman
(b) India
(c) Jordan
(d) Canada
(e) Senegal

Q112. In 2024, NATO reached a major milestone in its history. Which anniversary of its establishment and commitment to collective defence did NATO celebrate?

- (a) 25th
(b) 50th
(c) 65th
(d) 75th
(e) 100th

Q113. Which of the following statements regarding the GST Council in India is/are correct?

1. The Union Finance Minister is the Chairperson of the GST Council.
 2. The GST Council includes the Union Minister of State for Revenue and finance or taxation ministers from all state governments as its members.
 3. The GST Council was established under Article 279A of the Indian Constitution by the 111th Constitutional Amendment Act, 2016.
- (a) Only 1 is correct
(b) Only 1 and 2 are correct
(c) Only 2 and 3 are correct
(d) Only 1 and 3 are correct
(e) All the statements are correct

Q114. The 45th Chess Olympiad was held in Budapest, where teams from around the world competed. Which of the following titles are officially awarded to chess players based on achievements?

1. Grandmaster
 2. International Master
 3. FIDE Master
 4. Candidate Master
- (a) Only 1 and 2 are correct
(b) Only 1, 2, and 3 are correct
(c) Only 1, 2, and 4 are correct
(d) Only 1, 3, and 4 are correct
(e) All the options are correct

Q115. What is the maximum insurance cover provided under the Employees' Deposit Linked Insurance (EDLI) Scheme in case of the death of an active member during the service period?

- (a) Rs. 4 lakh
(b) Rs. 5 lakh
(c) Rs. 6 lakh
(d) Rs. 7 lakh
(e) Rs. 8 lakh

Q116. What is the maximum amount of collateral-free 'Enterprise Development Loans' provided under the PM Vishwakarma scheme for artisans and craftspeople?

- (a) Rs. 1 lakh
(b) Rs. 2 lakh
(c) Rs. 3 lakh
(d) Rs. 4 lakh
(e) Rs. 5 lakh

Q117. After the recent extension, what is the new duration of the Production Linked Incentive (PLI) Scheme for the Automobile and Auto Components sector?

- (a) 2021-2026
- (b) 2022-2027
- (c) 2023-2028
- (d) 2024-2029
- (e) 2025-2030

Q118. Which states have emerged as the top performer states in NITI Aayog's SDG India Index 2023-24, reflecting substantial progress in social, economic, and environmental parameters? (July 2024)

- (a) Uttarakhand and Kerala
- (b) Karnataka and Gujarat
- (c) Tamil Nadu and Maharashtra
- (d) Punjab and Haryana
- (e) Rajasthan and Goa

Q119. Who was the key figure behind Camlin's diversification into art materials in 1960 and served as its chairman emeritus until July 2024?

- (a) Ashok Kumar
- (b) Subhash Dandekar
- (c) Ramesh Bhatia
- (d) Vijay Mehta
- (e) Harish Patel

Q120. Who was named the Laureus World Sportsman of the Year at the 2024 Laureus Sports Awards?

- (a) Lionel Messi
- (b) Kylian Mbappé
- (c) Novak Djokovic
- (d) LeBron James
- (e) Max Verstappen

Directions (121): In each of the questions given below, a few words are given in two columns. Choose the best possible combination of synonyms as your answer from the given options. If there is/ are no possible combination of synonyms from the options given below, then mark "None of these" as your answer choice.

Q121.

Column I

- (A) Commencement
- (B) Regime
- (C) Migration

Column II

- (D) Initiation
- (E) Differential
- (F) Relocation

- (a) A-E
- (b) B-D, A-F
- (c) C-E, B-F
- (d) A-D, C-F
- (e) None of these

Directions (122-123): In each question, one word is given in bold and correspondence to that, three sentences are given each containing that word. Choose the option depicting the sentence(s) that have/ has the correct usage of the word.

Q122. Twisted

- (I) The singer **twisted** the audience with her emotional performance, leaving them in tears.
- (II) She **twisted** her ankle while hiking on the rugged trail, making it difficult to continue the journey.
- (III) The plot of the novel took a **twisted** turn, leaving the readers baffled by the unexpected revelation.

- (a) Only (I)
- (b) Only (II)
- (c) All of these
- (d) Both (I) and (II)
- (e) Both (II) and (III)

Q123. Incursion

- (I) The sudden **incursion** of enemy forces into the border town caught the local authorities by surprise, leading to immediate defensive actions.
- (II) The company faced an **incursion** of new competitors in the market, forcing them to innovate quickly to maintain their position.
- (III) The wildlife sanctuary was threatened by the **incursion** of illegal loggers, endangering the delicate ecosystem within its boundaries.

- (a) Only (I)
- (b) Only (II)
- (c) Only (III)
- (d) All are correct
- (e) Both (I) and (III)

Directions (124-125): In each of the questions given below, a few words are given in two columns. Choose the best possible combination of antonyms as your answer from the given options. If there is/ are no possible combination of antonyms from the options given below, then mark "None of these" as your answer choice.

Q124. Column I

- (A) Explicit
- (B) Abrogation
- (C) Avenue

Column II

- (D) Barrier
- (E) Endorsement
- (F) Civil

- (a) A-E, B-D
- (b) A-D, B-F
- (c) C-E
- (d) B-E, C-D
- (e) None of these

Q125. Column I

- (A) Allegedly
- (B) Supersede
- (C) Espionage

Column II

- (D) Spying
- (E) Definitely
- (F) Uphold

- (a) C-E, A-D
- (b) A-E, B-F
- (c) B-D, C-F
- (d) A-F
- (e) None of these

Directions (126-130): Given sentences are not in their exact position. Rearrange them to make a coherent paragraph and then answer the questions given below.

(A) It reflects a collective sense of identity shaped by rapidly advancing technology, changing values, and a growing awareness of social issues.

(B) The zeitgeist, or “spirit of the times,” encapsulates the predominant cultural, intellectual, and moral climate of an era.

(C) In this evolving landscape, concerns about sustainability, inclusivity, and the far-reaching impact of digitization dominate global conversations.

(D) As society embraces new ideas and adapts to emerging trends, the collective consciousness undergoes continuous transformation.

(E) Thus, understanding the zeitgeist is essential, as it provides insight into the motivations driving individuals and societies in a particular age.

Q126. Which of the following should be the FIRST sentence after the rearrangement?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) E

Q127. Which of the following should be the SECOND sentence after the rearrangement?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) E

Q128. Which of the following should be the FOURTH sentence after the rearrangement?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) E

Q129. Which of the following should be the THIRD sentence after the rearrangement?

- (a) A
- (b) B
- (c) C
- (d) D
- (e) E

Q130. Which of the following will be the correct sequence of the sentences after rearrangement?

- (a) BCADE
- (b) CDABE
- (c) BADCE
- (d) CDAEB
- (e) AECDB

Directions (131-135): Each question is divided into four parts where one of the parts may or may not contain an error. Choose the part that has the error as your answer. If all the parts are correct choose "No Error".

Q131. Both the students as well as the teacher (A)/ were excited about the upcoming (B)/ science fair, eagerly preparing (C)/ their exhibits and presentations. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

Q132. I am looking forward (A)/ to examine the results of the research (B)/ study in detail next week to explore (C)/ potential improvements and applications. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

Q133. The professor provided new (A)/ insights into the complex theories (B)/ related to the data had we been (C)/ analyzing in the last part of the course. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

Q134. The library had a vast collection of (A)/ ancient manuscripts, but many of it (B)/ was in need of restoration due (C)/ to damage from age and neglect. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

Q135. The recovery from the economic (A)/ downturn happened as slowly (B)/ as it does due to insufficient government (C)/ intervention and delayed policy reforms. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

Directions (136-140): In the following passage there are blanks, each of which has been denoted by letters. For each blank, five options are given. Choose the most appropriate word from the options that fits the blank appropriately.

India's push for interest rate cuts is under threat as inflation _____(A) sharply, driven by rising food and fuel prices. The unexpected spike has complicated the Reserve Bank of India's (RBI) balancing act between supporting economic growth and controlling inflation. While industry bodies have been _____(B) for lower borrowing costs to boost investment and demand, the central bank may now delay rate cuts to _____(C) further inflationary pressures. The RBI's cautious stance reflects concerns that easing monetary policy in the current environment could undermine price stability. Additionally, global uncertainties, including volatile oil prices and geopolitical tensions, add to the _____(D) of decision-making. With inflation exceeding comfort levels, the central bank may opt to keep rates steady, prioritizing stability over growth in the near term. This scenario highlights the delicate trade-off between promoting economic recovery and ensuring inflation remains under control, _____(E) a challenge for India's monetary policy framework.

Q136. Which of the following words will fit in the given blank (A)?

- (a) crises
- (b) biases
- (c) rectifies
- (d) traces
- (e) surges

Q137. Which of the following words will fit in the given blank (B)?

- (a) cumulating
- (b) advocating
- (c) innovating
- (d) activating
- (e)regranting

Q138. Which of the following words will fit in the given blank (C)?

- (a) shake
- (b) prior
- (c) advance
- (d) prevent
- (e) lenient

Q139. Which of the following words will fit in the given blank (D)?

- (a) meliority
- (b) proximity
- (c) complexity
- (d) verbosity
- (e) austerity

Q140. Which of the following words will fit in the given blank (D)?

- (a) posing
- (b) caving
- (c) aiding
- (d) having
- (e) ruling

Directions (141-145): In each of the following sentences, four words have been highlighted which may or may not be misspelt or inappropriate in their usage. Mark the erroneous word as your answer and if you think that all the words are correct in their spellings and usage, choose 'All are correct' as your answer.

Q141. Although he has fallen into **disgrace**, the effect on his **reputation** will **probably** be more temporary than **indeliable**.

- (a) disgrace
- (b) indeliable
- (c) reputation
- (d) probably
- (e) All are correct

Q142. The band will **seranade** the **birthday** girl after the **waitress brings** her cake.

- (a) brings
- (b) birthday
- (c) waitress
- (d) serenade
- (e) All are correct

Q143. According to the **treasure** map, the cave is located at the end of the **sinuous** path that **winds** up the **mountain**.

- (a) winds
- (b) mountain
- (c) sinuous
- (d) treasure
- (e) All are correct

Q144. The girl **uttered** an **expletive** when she **received** a low score on an **important** exam.

- (a) uttered
- (b) expletive
- (c) received
- (d) important
- (e) All are correct

Q145. Our initial **aquaintance**, once **tenuous** and ephemeral, transformed into an unassailable **alliance**, fostered by serendipitous interactions and unwavering **fidelity**.

- (a) alliance
- (b) tenuous
- (c) fidelity
- (d) acquaintance
- (e) All are correct

Directions (146-155): Read the given passage and answer the following questions.

Ravi and Ankit, two friends working in the IT sector, sat together in their usual café after a **grueling** day at work. Both had been in the industry for years and were no strangers to the mounting pressures that came with their roles. As they settled into their conversation, the topic inevitably turned to their jobs and the relentless pace they had been keeping up with.

"I feel like I'm constantly on the back foot these days," Ravi admitted, rubbing his forehead as if trying to ease the tension. "It's not just about writing code anymore. It's the constant updates, client revisions, and meetings that **pile up**. I thought I'd have a little breathing room this week, but guess what? Another project landed on my desk this morning. It's like we're perpetually **chasing our own tails**."

Ankit, who worked as a project manager, nodded in agreement. "Tell me about it," he said, his tone weary. "Managing client expectations while trying to keep the team motivated is like walking a tightrope. Just when you think you've got everything under control, something pops up and throws a wrench in the works. It's as if the workload never lets up."

Ravi chuckled, though there was a hint of exhaustion behind it. "Exactly! And the worst part is, no matter how much you _____, there's always more waiting for you the next day. It feels like we're stuck in a hamster wheel, just running and running but never getting anywhere."

Ankit leaned back in his chair, his expression softening as he changed the subject. "You know, that's why I make it a point to disconnect completely when I get a chance. I've taken up hiking again. Whenever I have some free time, I head to the hills. Being out in nature, far away from the constant pings of work emails, is like hitting the reset button."

Ravi's face lit up at this. "That sounds amazing. I've been doing something similar, actually. I picked up photography again after ages. Every weekend, I grab my camera and head out. It's such a relief to focus on something that isn't work-related. The creativity is freeing, and it reminds me that there's more to life than just deadlines."

As they continued to chat, the two friends realized how essential it was to have something outside of work to help them recharge. Their hobbies had become a vital part of keeping them sane, offering an escape from the constant grind of their IT careers. While the pressures at work weren't going anywhere, at **less** they had found small pockets of joy to help them weather the storm.

Q146. Choose the most appropriate synonym of the word "grueling" as highlighted in the passage.

- (a) beheading
- (b) derationing
- (c) awaiting
- (d) challenging
- (e) piling

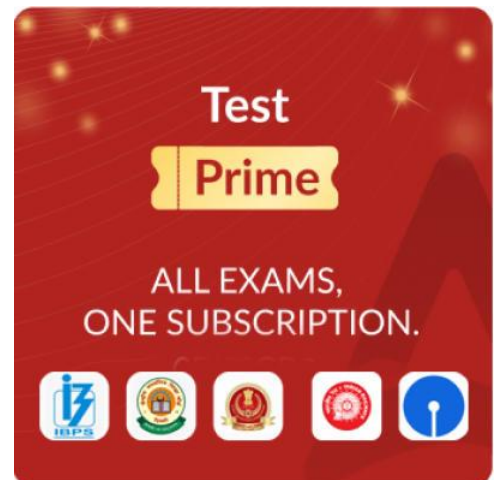
Q147. According to the passage, which of the following statements is/are ACCURATE?

- (I) Ravi finds it difficult to manage the increasing pressure due to the unending client revisions and continuous project demands in his role as a software developer.
- (II) Ankit, who manages projects, believes that balancing client expectations and motivating his team is like managing an unpredictable situation, with obstacles constantly arising.
- (III) Both Ravi and Ankit agree that their work demands leave them little room for relaxation, and they've given up on trying to find any work-life balance, focusing entirely on their professional responsibilities.

- (a) Only (I)
- (b) Both (I) and (II)
- (c) Both (II) and (III)
- (d) Only (III)
- (e) All (I), (II), and (III)

Q148. Choose the most appropriate word to fill the blank given in the passage.

- (a) accelerate
- (b) acclaim
- (c) venerate
- (d) admire
- (e) accomplish



Q149. Based on the passage, what does Ankit imply by stating that he makes it a point to "disconnect completely" when he gets a chance?

- (a) He likes to distance himself from friends and colleagues when he feels frustrated with his job.
- (b) He often hikes in the hills to contemplate work challenges and develop new strategies.
- (c) He alleviates work-related stress by engaging in outdoor activities and minimizing ongoing work communication.
- (d) He prefers to work remotely from the hills to stay productive while enjoying the natural surroundings.
- (e) He views nature trips as a break from his duties, even though he continues to check his work emails.

Q150. What does Rohit want to convey using the idiom "chasing our own tails" in the context of the passage?

- (a) They are dealing with endless work that seems repetitive and unproductive, despite their efforts.
- (b) They feel like they are struggling to balance both their personal and professional responsibilities.
- (c) They constantly solve new problems, but each success leads to increased responsibility, making them feel empowered.
- (d) They are frequently moving between different projects without fully completing any of them.
- (e) They are always ahead of their deadlines, but are given new tasks due to their efficiency.

Q151. Which of the following words can best replace the word "less" to make the sentence grammatically and contextually correct?

- (a) verst
- (b) wrest
- (c) exist
- (d) first
- (e) least

Q152. According to the passage, which of the following statement(s) is/are true?

- (I) Ravi's giggle, despite being filled with exhaustion, implied his acceptance of the ongoing situation.
- (II) Both friends recognized that pursuing hobbies outside of work was essential for rejuvenation.
- (III) The discussion swiftly shifted to the stresses of their hectic work schedules.

- (a) Only (I) is true
- (b) Only (II) is true
- (c) Both (II) and (III) are true
- (d) Only (III) is true
- (e) All statements are true

Q153. Based on the passage, what realization did Ravi and his friend come to during their conversation?

- (a) Their hobbies were distracting them from meeting work deadlines, adding to their stress levels.
- (b) Photography and hiking were merely temporary distractions, with no lasting impact on their mental health.
- (c) Having interests outside of work was essential for their emotional well-being and offered much-needed relief from the pressures of their IT jobs.
- (d) The constant grind of their IT careers has provided them ample time to engage in hobbies and leisure activities.
- (e) Their creative pursuits had no real effect on helping them recharge or escape the pressures of their work life.

Q154. What can be inferred from the statement, "I thought I'd have a little breathing room this week, but guess what?"

- (a) The speaker's workload was reduced, giving them ample time to engage in other activities outside work.
- (b) The speaker managed to complete their work on time, enjoying a brief period of rest afterward.
- (c) The speaker's week went according to plan, allowing them to focus on hobbies and leisure.
- (d) The speaker had anticipated a lighter workload but ended up receiving more tasks than expected.
- (e) The speaker had expected a challenging week but found it surprisingly easy due to fewer tasks than usual.

Q155. What does the phrase "pile up" mean in the context of the passage?

- (a) To reduce the amount of work over time and gradually complete tasks.
- (b) To accumulate tasks, updates, and meetings to the point where they become overwhelming.
- (c) To organize work in a structured manner, ensuring smooth completion.
- (d) To delegate tasks to others, causing the workload to decrease significantly.
- (e) To work on tasks in a relaxed manner, ensuring no work remains by the end of the week.

Directions (156-159): Each of the following questions consists of a paragraph with a blank. Choose the most appropriate phrase from the given options that must fill in the blank to form a grammatically correct and contextually meaningful paragraph.

Q156. The global shift towards renewable energy sources has led to a significant reduction in carbon emissions. _____. This trend is expected to continue as more countries adopt green energy policies and technologies. Additionally, the growing investments in solar and wind power highlight the commitment to a sustainable future.

- (a) These wind turbines are commonly installed in areas with strong, consistent winds to maximize energy production.
- (b) However, the transition to renewable energy has been slow due to the lack of political will in some regions.
- (c) Its impact on reducing air pollution is another key benefit of adopting renewable energy.
- (d) Many nations have been hesitant to invest in renewable energy due to the high initial costs.
- (e) None of these

Q157. The development of electric vehicles (EVs) has brought significant changes to the automotive industry. _____. As more companies focus on producing EVs, the demand for charging infrastructure and battery technology continues to rise. Governments worldwide are also offering incentives to promote the adoption of these eco-friendly vehicles.

- (a) This has resulted in a positive impact on global oil prices, which have dropped significantly.
- (b) EV manufacturers are investing heavily in research to improve the range and efficiency of electric batteries.
- (c) Despite these advances, hybrid vehicles are still seen as a better alternative for long-distance travel.
- (d) The EV industry faces challenges in terms of affordability, with many models being out of reach for average consumers.
- (e) None of these

Q158. The expansion of 5G technology promises to transform communication networks, enabling faster data transfer and more reliable connections. _____. As a result, industries such as healthcare, transportation, and entertainment are expected to benefit significantly from this technological leap.

-
- (a) The implementation of 5G requires substantial investments in new infrastructure and equipment.
- (b) Many users are concerned about the health effects of prolonged exposure to 5G signals.
- (c) Several countries have already begun adopting 5G, though its rollout has been slower than expected in some regions.
- (d) Its ability to support real-time communication and massive device connectivity makes it ideal for emerging technologies like the Internet of Things (IoT).
- (e) None of these

Q159. Advances in biotechnology have opened new possibilities for treating previously incurable diseases. _____ . Researchers are optimistic that these developments will lead to more personalized medicine, tailored to an individual's genetic makeup.

- (a) This has led to concerns about the ethical implications of genetic modification in humans.
- (b) Breakthroughs in gene editing and stem cell research have paved the way for innovative therapies.
- (c) Biotechnology companies are now focusing on reducing the cost of drug production to make treatments more accessible.
- (d) Despite these advances, there is still limited public awareness about the benefits of biotechnology.
- (e) None of these

Directions (160): In the provided question, an idiom is presented, followed by three statements. Identify the statements that correctly use the given idiom.

Q160. Clean Bill of Health

- (A) After the thorough medical examination, the doctor gave her a **clean bill of health**, confirming she was in perfect condition.
- (B) The mechanic inspected the car and gave it a **clean bill of health**, saying it was in excellent working condition.
- (C) He was handed a **clean bill of health** when he successfully cleaned his house from top to bottom.
- (a) Both A & B
- (b) All A, B, C
- (c) Only C
- (d) Both B & C
- (e) Only A

Q161. A man invested (P +800) in a scheme, offering 15% SI for four years and receives (P -320) as interest. If the man invest (P -100) in another scheme, offering 8% SI for four years, then what will be the interest difference (in Rs)?

- (a) 1072
- (b) 1512
- (c) 1094
- (d) 1205
- (e) 1408

Q162. P and Q started a business by investing Rs. 400 and Rs. 700 respectively after four months, Q invested X rupees more. If the profit share of P is $(9X + 1300)$ out of the total profit of 13000, then find the X.

- (a) 200
- (b) 300
- (c) 100
- (d) 290
- (e) 330

Q163. A man has an income of 1,20,000. He spent 20% on the income on education remaining 2B% percent on PF. Remaining he invested in NIPS and SSY in the ratio of 3:5. If the amount spent on SSY is Rs 4200, then find the value of B.

- (a) 20.50%
- (b) 30.5%
- (c) 46.5%
- (d) 29.5%
- (e) 33.05%

Q164. A and B together take two days less to complete a work than that of B. B completes 50% of work in 10 days, then find the time taken by A alone to complete the work.

- (a) 200 days
- (b) 180 days
- (c) 150 days
- (d) 90 days
- (e) 30 days

Direction (165-167): There are three bakeries: A, B, and C. They all bake and sell cakes, total number of cakes baked by them was 126. A bakes more cakes than B, and C bakes more cakes than B. The difference between cakes baked by A and B together is doubled than the difference between cakes baked by B and C. A and B sold 41 and 29 cakes, respectively. The number of cakes baked by A and C is in the ratio of 8:7. Unsold cakes of A and C were the same.

Q165. Find the unsold cakes of C.

- (a) 7
- (b) 18
- (c) 14
- (d) 21
- (e) 3

Q166. Cakes sold by A is approximately what percentage of cakes baked by C.

- (a) 88%
- (b) 17%
- (c) 57%
- (d) 98%
- (e) 38%

Q167. 20% of cakes sold by C are chocolate cakes, then find the difference between total chocolate cakes sold by C and unsold cakes of bakery B.

- (a) 2
- (b) 8
- (c) 1
- (d) 9
- (e) 0

Direction (168-172): Read the data and answer the following questions. The table shows the difference between books published online and offline by four publishers (A, B, C, and D), and it also shows the percentage of books published offline out of total books published by each publisher.

Publishers	Online – Offline	Percentage of book published offline
A	210	20
B	224	10
C	0	----
D	84	30

Note – Books published = Online + Offline

Q168. The total number of books published by C was double than that of books published by D. Find the difference between online books published by C and offline books published by A.

- (a) 135
- (b) 140
- (c) 120
- (d) 110
- (e) 130

Q169. If the average number of offline books published by B, C and D is 112, then find the ratio of online books published by C to average number of offline books published by A and B.

- (a) 2:1
- (b) 8:1
- (c) 1:4
- (d) 5:1
- (e) 1:1

Q170. Publisher F, published 20% more books than that of B and the average number of books published by A and D is equal to offline books published by F. find the difference between online and offline books published by F.

- (a) 212
- (b) 224
- (c) 221
- (d) 225
- (e) 220

Q171. Books published by A is what percentage of books published by B offline.

- (a) 1275
- (b) 1250
- (c) 1220
- (d) 1200
- (e) 1000

Q172. Find the difference between books published online and books published offline by all the publishers.

- (a) 518
- (b) 218
- (c) 911
- (d) CND
- (e) None of these

Q173. The cost of a table and a chair is Rs 140 and Rs 110, respectively. The marked price of the table and the chair is the same, and the discount allowed on the table and the chair is 20% and 30%, respectively. If the overall profit is 20%, then find the marked price of the chair.

- (a) Rs 250
- (b) Rs 140
- (c) Rs 160
- (d) Rs 200
- (e) Rs 180

Directions (174-178): Read the following table carefully and answer the questions given below. The table shows the ratio between the production of items on Monday and on Tuesday by five different companies. The table also shows the difference between the total production of items on Monday and Tuesday by these companies.

Companies	Ratio of production of items on Monday and on Tuesday	Difference between the total production of items on Monday and Tuesday
A	16:13	150
B	5:4	190
C	11:9	120
D	4:3	250
E	4:5	100

Q174. Find the ratio between the total production of items on Monday by A to the total production of items on Tuesday by D.

- (a) 13:17
- (b) 11:12
- (c) 16:19
- (d) 16:15
- (e) 13:15

Q175. Total production of items on Tuesday by E is what percentage of the total production of items on Monday by D?

- (a) 75%
- (b) 100%
- (c) 50%
- (d) 25%
- (e) 125%

Q176. Total production of items on Monday by B and C together is how many more or less than the total production of items on Tuesday by D and E together.

- (a) 400
- (b) 380
- (c) 360
- (d) 440
- (e) 310

Q177. Total production of items on Monday by F is 20% more than the total production of items on Tuesday by A. If the ratio of the total production on items on Monday and Tuesday together by F to D is 17:25, then find the total production on items on Tuesday by F.

- (a) 400
- (b) 440
- (c) 430
- (d) 420
- (e) 410

Q178. Average of the production of items on Monday and Tuesday by B is what percentage is more or less than the total production of items on Tuesday by E.

- (a) 67%
- (b) 71%
- (c) 69%
- (d) 73%
- (e) 78%

Q179. A and B started a business, and the investment of A is Rs 2000 more than that of B. A investment for 8 months and B investment for a year. If at the end of the year the total profit is Rs 6800, then find the investment of B. (Note: The profit share of A is $16x$, where $x^2 + 410 = 40410$)

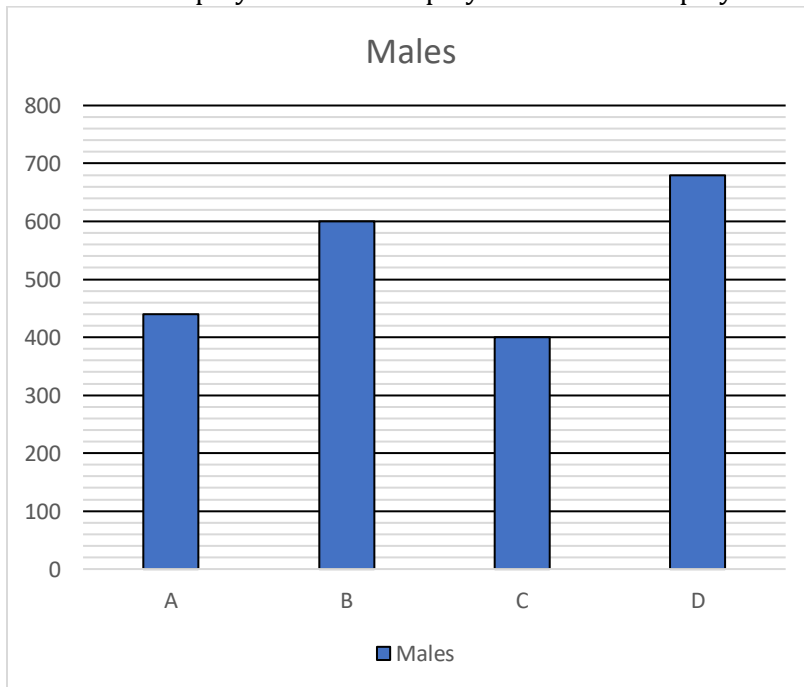
- (a) 7500
- (b) 4000
- (c) 8000
- (d) 4500
- (e) 6000

Q180. A vessel contains 60 liters of milk and water. The quantity of milk is three times the quantity of water. Now, 8 liters of mixture are taken out, and P liters of milk and Q liters of water are added to the mixture such that the ratio of milk to water becomes 9:5, respectively. If the sum of P and Q is 18 liters, then find the value of P.

- (a) 4
- (b) 6
- (c) 12
- (d) 10
- (e) 8

Directions (181-185): The bar graph shows the total number of male employees in four different companies. The table shows the ratio of the sum of male employees and female employees to the difference between the male employees and female employees in these companies.

Note: Total employees = Male employees + female employees.



Companies	(Male + females) : (males - females)
A	9:2
B	13:2
C	17:3
D	11:6

Q181. Find the ratio of the total female employees in C and A together to the total employees in B.

- (a) 11:19
- (b) 17:15
- (c) 11:17
- (d) 11:13
- (e) 7:13

Q182. Total female employees in B is what percentage more or less than the total male employees in A?

- (a) 100%
- (b) 19%
- (c) 28%
- (d) 0%
- (e) None of these

Q183. If the total employees in X are 66.67% more than that in A and the total male employees in E are $\frac{5}{13}$ of the total employees in B and female employees in X is equal to male employees in E, find the difference between male and female employees in X.

- (a) 400
- (b) 200
- (c) 100
- (d) 500
- (e) 600

Q184. Total male employees in F are $X+25$ which is equal average number of female employees in B and D. Total female employees in F is 25% of the total male employees in D. Find the difference between X and total employees in F.

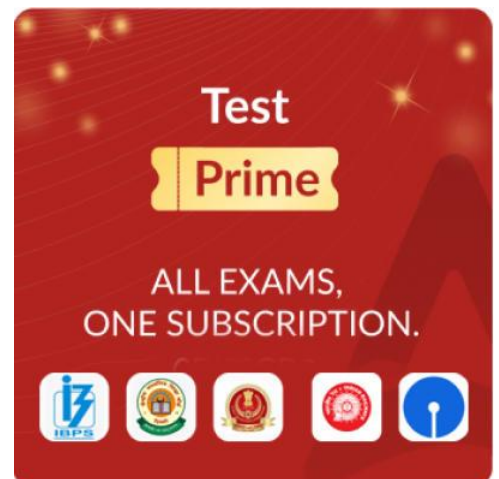
- (a) 135
- (b) 110
- (c) 140
- (d) 150
- (e) 195

Q185. The difference between average number of female employees and male employees in all four companies is X, then find which of the following option is correct.

- (a) When X is divided by 10, the result is a prime number.
- (b) $X > 305$
- (c) X is divisible by 5
- (d) $X < 230$
- (e) Both (a) & (c)

Q186. A boat can cover 120 km downstream in 2.5 hours, and the speed of the boat and speed of stream in the ratio 7:5. If the boat can cover d-24 km upstream in 7.5 hours, then find the time taken by the boat to cover d km in still water.

- (a) 6 hours
- (b) 5 hours
- (c) 4 hours
- (d) 2 hours
- (e) 3 hours



Directions (187-191): Find the wrong number in given series.

Q187. 18, 36, 12, 24, 8, 18

- (a) 18
- (b) 36
- (c) 8
- (d) 24
- (e) 12

Q188. 120, 149, 166, 185, 208, 237

- (a) 185
- (b) 166
- (c) 149
- (d) 120
- (e) 208

Q189. 204, 210, 235, 251, 376, 412

- (a) 204
- (b) 210
- (c) 235
- (d) 251
- (e) 412

Q190. 79, 54, 75, 58, 71, 62, 65

- (a) 62
- (b) 65
- (c) 71
- (d) 58
- (e) 75

Q191. 50, 53, 67, 100, 160, 255, 395

- (a) 100
- (b) 160
- (c) 255
- (d) 395
- (e) 50

Q192. The side of a cube is 4 cm more than the side of a square. If the ratio of the lateral surface area of the cube and area of the square is 9:1 respectively, then find the volume of the cube.

- (a) 512 cm^3
- (b) 216 cm^3
- (c) 1728 cm^3
- (d) 1331 cm^3
- (e) 2197 cm^3

Q193. The time taken by train Q to cross a 120-meter-long platform is 3 seconds less than the time taken by train P to cross the same platform. If the ratio of the speed of the trains P to Q is 3:2, respectively, then find the speed of the train Q.

- (a) 24 m/sec
- (b) 15 m/sec
- (c) 12 m/sec
- (d) None of these
- (e) Can't be determined

Directions (194-195): The following questions are accompanied by two statements i.e. statement (I) and statement (II). You have to determine which statement (s) is/are sufficient/necessary to answer the questions.

Q194. The ratio of the age of P to Q and Q to R is 4:5 and 3:2 respectively. Find the age of Q after ten years.

Statement I. The difference between the age of R and P after ten years is equal to the difference between the age of P and Q after ten years.

Statement II. The difference between the age of P and R is four years.

- (a) Neither statement (I) nor statement (II) by itself is sufficient to answer the question.
- (b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.
- (c) Either statement (I) or statement (II) by itself is sufficient to answer the question.
- (d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (e) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

Q195. The ratio of the cost price of two articles P to Q is 4:5, respectively. The discount allowed on each of the articles was 25%. Find the selling price of article Q.

Statement I. Article P was sold at a profit of 40%, and article Q was sold at a profit of Rs 420.

Statement II. The marked price of both the articles is the same.

- (a) Neither statement (I) nor statement (II) by itself is sufficient to answer the question.
- (b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.
- (c) Either statement (I) or statement (II) by itself is sufficient to answer the question.
- (d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (e) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.

Q196. The average of A, B, and C is 30, and the average of C, D, and E is 19. If the average of A and E is 23 and B and E is 24, then find the value of B.

- (a) 23
- (b) 19
- (c) Can't be determined
- (d) 28
- (e) None of these

Directions (197-198): What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

Q197. $780.18 + 89.90 \div 30.09 = 39.99 + ? + 169$

- (a) 574
- (b) 588
- (c) 532
- (d) 502
- (e) 678

Q198. $238 \div 6 + \sqrt{839} \times 5 = ? + 119.98$

- (a) 19
- (b) 35
- (c) 54
- (d) 89
- (e) 65

Directions (199-200): In each of these questions, two equation (I) and (II) are given. You have to solve both the equations and give answer.

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or no relation can be established between x and y

Q199. I. $x^2 + \frac{9x}{2} + \frac{7}{2} = -\frac{3}{2}$

II. $y^2 + 16y + 63 = 0$

Q200. I. $3x^2 + 17x + 24 = 0$

II. $y^2 + 12y + 27 = 0$

Solutions

Directions (1-5):

Floor	Flat-1	Flat-2
3	M-Apple	P-Banana
2	O-Mango	N-Cherry
1	R-Orange	Q-Watermelon

S1. Ans. (b)

S2. Ans. (a)

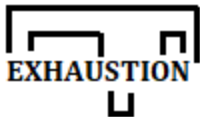
S3. Ans. (b)

S4. Ans. (d)

S5. Ans. (e)

S6. Ans. (a)

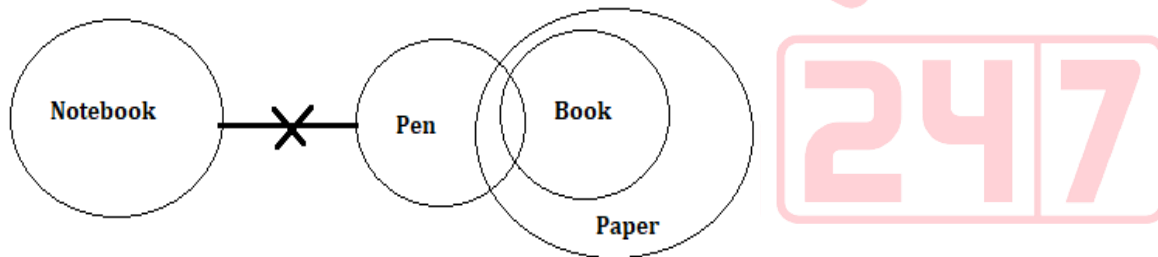
Sol.



Directions (7-9):

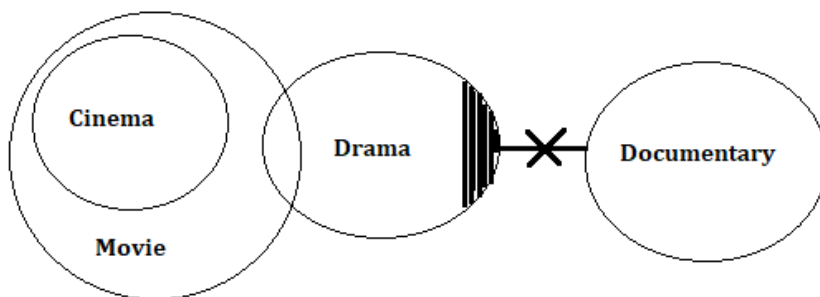
S7. Ans. (a)

Sol.



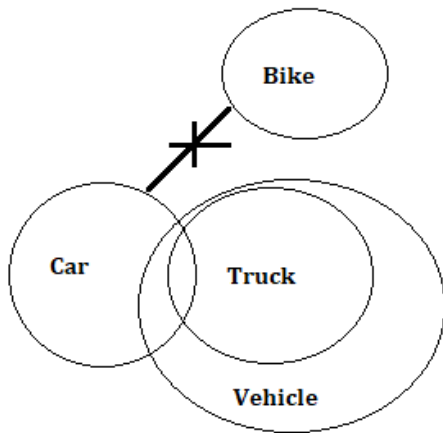
S8. Ans. (e)

Sol.



S9. Ans. (d)

Sol.



Directions (10-14):

Final Arrangement is here:

Years	Ages	Persons
1936	64	W
1945	55	T
1950	50	V
1962	38	S
1967	33	R
1975	25	P
1984	16	U
1991	9	Q

S10. Ans. (e)

S11. Ans. (b)

S12. Ans. (d)

S13. Ans. (d)

Sol. Except, R age of other persons is an even number.

S14. Ans. (c)

S15. Ans. (b)

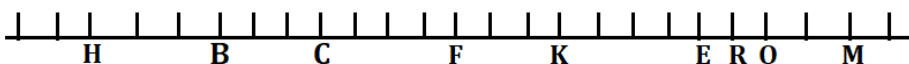
S16. Ans. (e)

S17. Ans. (c)

S18. Ans. (d)

Directions (19-22):

Final Arrangement is here:



S19. Ans. (d)

S20. Ans. (e)

S21. Ans. (b)

Sol. $25-6=19$

S22. Ans. (a)

S23. Ans. (d)

Sol. From Statement I and II:

Boxes
H
G
E
D
F

S24. Ans. (e)

Sol. Both statements I and II together are not sufficient

Directions (25-29):

Final Arrangement is here:

Months	Persons
January	J
March	L
April	F
May	H
June	G
July	M
September	K
October	O
November	I
December	N

S25. Ans. (c)

S26. Ans. (d)

S27. Ans. (c)

S28. Ans. (b)

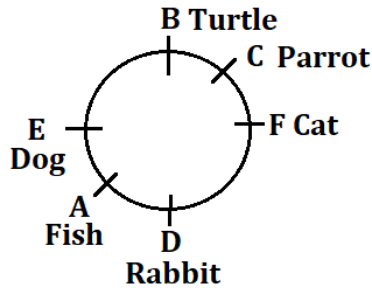
S29. Ans. (e)

S30. Ans. (c)

Sol. $6472365972 = 8654183754 = 7+4=11$

Directions (31-35):

Final Arrangement is here:



S31. Ans. (b)

S32. Ans. (d)

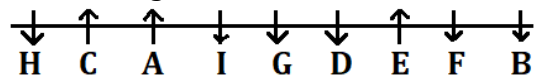
S33. Ans. (e)

S34. Ans. (d)

S35. Ans. (e)

Directions (36-40):

Final Arrangement is here:



S36. Ans. (b)

S37. Ans. (c)

S38. Ans. (d)

Sol. Except F and H, both the persons in each pair face opposite direction.

S39. Ans. (e)

S40. Ans. (c)

S41. Ans. (b)

Sol. Hacking refers to unauthorized access to a computer system or network with malicious intent. Hackers often exploit system vulnerabilities to gain access and manipulate or steal data. This illegal activity can lead to significant data breaches, loss of privacy, and financial damage.

Important Key Points:

1. **Hacking** involves breaking into systems to cause harm or steal sensitive information.
2. This act is illegal and can result in severe legal consequences.

Knowledge Booster:

- **Phishing** is a type of social engineering attack where attackers trick users into providing sensitive information through fake emails or websites.
- **Data Mining** is the process of analyzing large datasets to find patterns and insights, not related to unauthorized access.
- **Spoofing** refers to disguising a communication source to appear as a trusted entity, but it does not involve direct unauthorized access.
- **Firewall Breach** happens when a firewall is bypassed, but it's a specific type of attack, not necessarily related to hacking with malicious intent.

S42. Ans. (a)

Sol. Phishing is a common method used by attackers to steal personal information, such as user IDs, passwords, and other sensitive data. Attackers typically use fake emails, websites, or messages that mimic legitimate organizations to trick individuals into revealing their credentials.

Important Key Points:

1. **Phishing** is a form of social engineering that aims to deceive users into providing confidential information.
2. It often involves the use of fake websites or email links that appear legitimate to users.

Knowledge Booster:

- **Data Encryption** is used to protect sensitive data, not to steal it. It ensures that data is secure during transmission.
- **Cloud Storage** is a service used to store data remotely and securely; it is not related to identity theft.
- **Firewall** is a security measure used to block unauthorized access to networks, not to steal information.
- **Debugging** is the process of identifying and fixing errors in software code, and it has no relation to identity theft.

S43. Ans. (b)

Sol. CC (Carbon Copy) and **BCC (Blind Carbon Copy)** are terms used in email communication. **CC** allows the sender to send a copy of the email to recipients while making it visible to all other recipients. **BCC** allows the sender to send the same email to multiple recipients, but the recipients in the BCC field remain hidden from each other.

Important Key Points:

1. **CC** sends a copy of the email to other recipients, and all recipients can see who received the email.
2. **BCC** hides the recipients from each other, providing privacy in mass email communication.

Knowledge Booster:

- **Carbon Copy (CC)** is used when you want others to be informed of the email but don't require direct action from them.
- **Blind Carbon Copy (BCC)** is used to protect the privacy of recipients when sending emails to large groups or when you don't want recipients to see who else received the email.
- **Central Communication** and **Clear Copy** are not related to email terms.
- **Backup Communication** and **Blind Contact Copy** are incorrect and not used in email systems.

S44. Ans. (a)

Sol. A system hang or freeze is commonly caused by **CPU Overload**, where the processor is overwhelmed with too many tasks, preventing it from responding to new inputs. When the CPU is overloaded, the system becomes unresponsive, and users are unable to interact with the applications or operating system until the issue is resolved.

Important Key Points:

1. **CPU Overload** occurs when the processor is tasked with more operations than it can handle, leading to unresponsiveness.
2. It is one of the most common causes of system freezes or hangs, especially when running multiple heavy applications.

Knowledge Booster:

- **System Reboot** occurs when the system is restarted, but it is not a typical result of a system hang unless manually initiated.
- **Blue Screen of Death (BSOD)** indicates a critical system error in Windows, which causes the system to crash, but it is different from a freeze.
- **Application Crash** refers to a single program failing, not the entire system freezing.

S45. Ans. (c)

Sol. **Microsoft Outlook** is a popular email client used for sending and receiving emails. It is part of the Microsoft Office suite and provides features like calendar management, task scheduling, and contact management, making it a comprehensive tool for communication and productivity.

Important Key Points:

1. **Microsoft Outlook** allows users to manage emails, contacts, calendars, and tasks in one integrated platform.
2. It supports multiple email accounts and integrates well with other Microsoft Office applications.

Knowledge Booster:

- **Adobe Photoshop** is used for graphic design and image editing, not for email management.
- **Microsoft Word** is primarily used for word processing and document creation, not for emails.
- **VLC Media Player** is a multimedia player used for playing audio and video files, not emails.
- **AutoCAD** is a software application used for computer-aided design (CAD) and drafting, not for email communication.

S46. Ans. (b)

Sol. In a Gmail address, the "@" sign separates the **username** from the **domain**. For example, in the email address **user@gmail.com**, "user" is the username, and "gmail.com" is the domain. The "@" symbol is used universally in email addresses to distinguish between the local part (username) and the domain part (email provider).

Important Key Points:

1. The "@" sign is a standard separator between the username and the email service provider's domain name.
2. Every valid email address has this structure: **username@domain**.

Knowledge Booster:

- **Username and password** are not separated by the "@" sign; they are used together for authentication but are kept separate from the email address format.
- **Email ID and contact number** are unrelated to the structure of an email address.
- **Sender and recipient** are defined in the "To" and "From" fields of an email, not by the "@" sign.
- **Local and international servers** are not distinguished by the "@" sign; the domain specifies the email provider's server.

S47. Ans. (b)

Sol. The **Freeze Panes** feature in MS Excel allows you to lock specific rows or columns so that they remain visible even when you scroll through other parts of the spreadsheet.

- For example, freezing the top row ensures that the headers remain visible as you navigate through the worksheet.
- This feature is especially useful for large datasets to keep key references in view.

Important Key Points:

1. To enable **Freeze Panes**, go to the **View tab** and select **Freeze Panes**.
2. Options include:
 - **Freeze Top Row:** Locks the first row.
 - **Freeze First Column:** Locks the first column.
 - **Custom Freeze:** Locks specific rows and columns based on your selection.
3. **Freeze Panes** enhances navigation and understanding of large datasets.

Knowledge Booster:

1. **Headers:** Refer to the first row (default) and are only visible when scrolling vertically unless frozen.
2. **Gridlines:** Provide structure to cells but do not stay fixed during scrolling.
3. **Active Cell:** The currently selected cell, which changes as you move through the sheet.

S48. Ans. (d)

Sol. **Charles Babbage** is widely recognized as the "Father of Computers." He designed the concept of a programmable computer and is credited with inventing the **Analytical Engine**, an early mechanical computer that laid the foundation for modern computing.

Important Key Points:

1. **Charles Babbage** conceptualized and designed the first mechanical computer, the **Analytical Engine**.
2. His work laid the groundwork for the development of modern programmable computers.

Knowledge Booster:

- **Alan Turing** is considered the father of theoretical computer science and artificial intelligence, but not the father of computers.
- **Steve Jobs** co-founded Apple and was instrumental in the personal computer revolution, but he is not the father of computers.
- **Bill Gates** is the co-founder of Microsoft and played a key role in software development, particularly with the Windows operating system, but not the father of computers.
- **John von Neumann** contributed to the architecture of modern computers, particularly the **stored-program concept**, but he is not referred to as the father of computers.

S49. Ans. (b)

Sol. A **Worm** is a type of malware that can self-replicate and propagate across networks without the need for a host program. Worms spread by exploiting vulnerabilities in network systems and can cause widespread disruption by consuming bandwidth and overloading systems.

Important Key Points:

1. **Worms** can replicate independently and spread across networks, making them highly contagious.
2. They do not require a host file or program to execute and spread, unlike viruses.

Knowledge Booster:

- **Virus:** A virus needs a host file or program to replicate and spread. It infects files and requires user action to spread.
- **Trojan Horse:** Trojans disguise themselves as legitimate software but do not replicate or spread on their own.
- **Spyware:** Spyware monitors user activities without self-replication capabilities.
- **Ransomware:** Ransomware encrypts files and demands payment for decryption but does not self-replicate without assistance.

S50. Ans. (c)

Sol. **MS Word** is a word processing software developed by Microsoft, primarily used for creating, editing, formatting, and printing documents. It is widely used in offices, schools, and homes for tasks like writing reports, creating resumes, and drafting letters.

Important Key Points:

1. **MS Word** is specifically designed for creating text-based documents with various formatting options.
2. It allows users to add images, tables, and charts, making it a versatile tool for document creation.

Knowledge Booster:

- **MS Excel** is used for creating spreadsheets and performing data analysis, not for document creation.
- **MS PowerPoint** is used for creating presentations, not for text-based documents.
- **MS Access** is a database management system, not intended for document creation.
- **Adobe Photoshop** is a graphic design tool used for editing images, not for document creation.

S51. Ans. (d)

Sol. The concentric circles on a hard disk are called **Tracks**. These tracks are used to store and organize data on the surface of the hard disk. Each track is divided into smaller units called sectors, which contain the actual data.

Important Key Points:

1. **Tracks** are circular paths on the surface of a hard disk where data is magnetically recorded.
2. Data on hard disks is organized into tracks, which are further subdivided into sectors for easier data access.

Knowledge Booster:

- **Sectors** are subdivisions of a track and contain the actual data storage units.
- **Clusters** refer to groups of sectors that are treated as a unit for data storage.
- **Blocks** are the basic units of data storage in some file systems, particularly in memory storage.
- **Cylinders** are a set of tracks located directly above and below each other on a hard disk platter.

S52. Ans. (c)

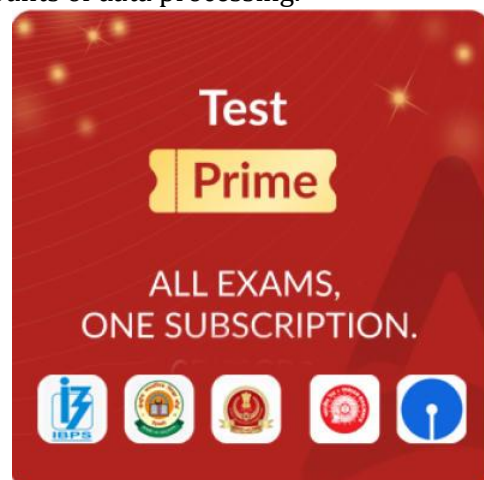
Sol. **FORTRAN** is example of **High-Level Programming Languages**. High-level languages are designed to be easy to read and write, abstracting away the hardware details of a computer. These languages are closer to human languages and are easier for developers to understand and use for complex programming tasks.

Important Key Points:

1. **FORTRAN** (Formula Translation) was one of the earliest high-level languages, designed for scientific and engineering computations.
2. **BASIC** (Beginner's All-purpose Symbolic Instruction Code) was designed to simplify programming for beginners and students.
3. **COBOL** (Common Business-Oriented Language) is a **High-Level Programming Language**. It was primarily designed for business, finance, and administrative systems for companies and governments. COBOL is known for its readability and is often used in legacy systems for handling large amounts of data processing.

Knowledge Booster:

- **Assembly Language** is a low-level programming language that is closer to machine code, not high-level like FORTRAN and BASIC.
- **Machine Language** is the lowest-level programming language, consisting of binary code, which is directly understood by a computer's CPU.
- **Scripting Languages** like Python and JavaScript are used for automating tasks but are different from traditional high-level programming languages.
- **Low-Level Language** refers to languages like assembly or machine language that are closer to hardware and less abstracted.



S53. Ans. (c)

Sol. A **Scanner** is a device used to convert hard copy documents, such as printed papers or photographs, into digital copies. The scanner captures the image or text from the physical document and transforms it into a digital format that can be stored on a computer.

Important Key Points:

1. **Scanners** digitize hard copy documents and store them in formats like PDF, JPEG, or TIFF.
2. The digital copy can be edited, stored, or shared electronically after scanning.

Knowledge Booster:

- **Printers** are used to convert digital files into physical hard copies, the reverse of scanning.
- **Monitors** display digital content but are not involved in converting physical documents to digital form.
- **CPUs** process data but are not used for converting documents.
- **Keyboards** are input devices used for typing, not for document conversion.

S54. Ans. (c)

Sol. The shortcut key **Ctrl + A** is used to select all the content in a document, whether it's text, images, or other elements. This command works in most applications, including word processors, web browsers, and file explorers, allowing users to quickly highlight all content with a single key combination.

Important Key Points:

1. **Ctrl + A** is the universal shortcut for selecting everything in a document or window.
2. It saves time by avoiding the need to manually highlight content using the mouse.

Knowledge Booster:

- **Ctrl + C** is the shortcut for copying selected content.
- **Ctrl + X** is the shortcut for cutting selected content.
- **Ctrl + S** is used for saving the current document.
- **Ctrl + V** is the shortcut for pasting copied or cut content.

S55. Ans. (a)

Sol. The shortcut key **Ctrl + Home** is used to jump to the beginning of a document in **MS Word**. This combination instantly moves the cursor to the very first character of the document, no matter where you are within the file.

Important Key Points:

1. **Ctrl + Home** is a quick way to navigate to the start of a document, saving time from scrolling manually.
2. It is a standard shortcut across many word processing applications.

Knowledge Booster:

- **Ctrl + End** moves the cursor to the end of the document, not the beginning.
- **Ctrl + B** is used to bold selected text.
- **Alt + Tab** switches between open applications but does not affect document navigation.
- **Shift + Home** selects all text from the current cursor position to the beginning of the line, not the document.

S56. Ans. (b)

Sol. **Bluetooth** is a technology used for wireless file transfer within a short range, typically up to 10 meters. It allows devices like smartphones, laptops, and tablets to share files, photos, and data without needing cables or a physical connection.

Important Key Points:

1. **Bluetooth** provides wireless connectivity for file sharing between devices over short distances.
2. It is widely used in mobile devices, laptops, and even peripheral devices like headphones and speakers for wireless communication.

Knowledge Booster:

- **USB Cable** requires a physical connection for data transfer and does not offer wireless capabilities.
- **Ethernet** is used for wired networking and does not facilitate wireless file transfer.
- **HDMI** is used to transmit audio and video signals, not for file transfer.
- **CD-ROM** is a physical medium used to store data but does not support wireless transfer.

S57. Ans. (b)

Sol. A **firewall** is a network security system designed to **block unauthorized access** while permitting authorized communications. It acts as a barrier between a trusted internal network and untrusted external networks, such as the internet, by filtering incoming and outgoing traffic based on predetermined security rules.

Important Key Points:

1. **Firewalls** are essential for preventing cyberattacks and unauthorized access to sensitive data on a network.
2. Firewalls can be implemented in both hardware and software forms, providing protection for individual devices or entire networks.

Knowledge Booster:

- **Monitoring CPU performance** is not the function of a firewall; this task is handled by system monitoring tools.
- **Increasing internet speed** is not a function of a firewall; it works to secure the network, not optimize performance.
- **Storing data** is the job of storage devices, not firewalls.
- **Managing software updates** is a task performed by update management tools, not firewalls.

S58. Ans. (b)

Sol. The shortcut key **Ctrl + S** is used to save a document in **MS Word**. This command helps you quickly save any changes made to the document, ensuring that your work is not lost.

Important Key Points:

1. **Ctrl + S** is a universal shortcut for saving documents in many applications, not just MS Word.
2. Regularly using **Ctrl + S** helps to avoid losing unsaved work due to system crashes or accidental closures.

Knowledge Booster:

- **Ctrl + P** is used to print a document.
- **Ctrl + A** is used to select all content in the document.
- **Ctrl + Z** is the shortcut for undoing the last action.
- **Ctrl + X** is used to cut the selected content.

S59. Ans. (c)

Sol. **Word processors** (e.g., MS Word) and **spreadsheet applications** (e.g., MS Excel) are examples of **Application Software**. These types of software are designed to help users perform specific tasks, such as writing documents or organizing data in tabular form. Application software runs on top of system software and caters to user-specific functions.

Important Key Points:

1. **Application Software** includes programs designed for end-users, such as word processing, spreadsheets, and presentations.
2. They enhance user productivity by providing tools for tasks like data analysis and document creation.

Knowledge Booster:

- **System Software** includes the operating system, which manages hardware and basic system operations, not user-specific tasks.
- **Utility Software** helps maintain and optimize the computer's performance, such as antivirus or disk management tools.
- **Security Software** is designed to protect the system from malware and cyber threats.
- **Firmware** is low-level software stored on hardware components to control device functionality.

S60. Ans. (c)

Sol. The unit of measurement for the timer watch in a microprocessor is **Hertz (Hz)**. This measures the clock frequency, which indicates how many cycles per second the timer operates. The microprocessor's internal clock governs the speed at which the microprocessor executes instructions, and it is typically measured in millions or billions of Hertz (MHz or GHz).

Important Key Points:

1. **Hertz (Hz)** is the standard unit for frequency, including the timing functions within a microprocessor.
2. A higher clock frequency (measured in Hertz) allows for faster execution of instructions.

Knowledge Booster:

- **Volts** measure electrical potential or voltage, not frequency.
- **Amperes** measure electric current, not time-related functions.
- **Ohms** measure resistance in an electrical circuit, not the frequency of a timer.
- **Joules** measure energy, not clock frequency in a microprocessor.

S61. Ans. (c)

Sol. **RAM (Random Access Memory)** is the primary storage in a computer used for **temporarily storing data**. It holds data and instructions that are currently being used by the CPU for processing. RAM is volatile, meaning its contents are lost when the computer is turned off.

Important Key Points:

1. **RAM** stores data temporarily and allows quick read and write access to support active tasks.
2. It is essential for multitasking, as it provides the CPU with fast access to necessary data.

Knowledge Booster:

- **CPU** (Central Processing Unit) processes data but does not store it temporarily.
- **CD-ROM** is a read-only storage medium, not used for temporary data storage.
- **Flash Drive** is used for portable, non-volatile storage, not temporary memory.
- **ROM** (Read-Only Memory) contains permanent data for system boot-up and other critical functions but does not store temporary data.

S62. Ans. (b)

Sol. **Ctrl** (Control) and **Alt** (Alternate) are known as **Modifier Keys**. These keys are used in combination with other keys to perform specific functions or shortcuts, such as **Ctrl + C** for copying and **Alt + Tab** for switching between open applications. Modifier keys alter the function of other keys when pressed together.

Important Key Points:

1. **Modifier Keys** like Ctrl and Alt enable keyboard shortcuts that help users perform tasks more efficiently.
2. They do not perform any action on their own but modify the function of other keys when used together.

Knowledge Booster:

- **Function Keys** (e.g., F1, F2) perform specific tasks, often associated with system or application functions.
- **Navigation Keys** (e.g., arrow keys) are used to move the cursor around a document or screen.
- **Toggle Keys** (e.g., Caps Lock) switch between two states (on/off) when pressed.
- **Numeric Keys** are used to input numbers and are found on the number pad.

S63. Ans. (c)

Sol. A **Window** is the rectangular area on the computer screen that displays information and allows users to run programs. In operating systems like Microsoft Windows, multiple windows can be opened at once, enabling users to view and interact with different applications simultaneously.

Important Key Points:

1. A **Window** allows users to view and interact with a program or document on the screen.
2. Multiple windows can be resized, minimized, or closed as needed, enhancing multitasking.

Knowledge Booster:

- The **Taskbar** is located at the bottom of the screen and shows open applications but is not used for displaying program content.
- The **Menu Bar** provides access to program functions and commands but is not the area where content is displayed.
- The **Desktop** is the main screen area where icons and shortcuts are placed, not where programs run.
- The **Toolbar** is a set of icons or buttons that provide quick access to functions within a window.

S64. Ans. (b)

Sol. **Burn** is not a computer security threat. It refers to physical damage, such as overheating or hardware failure, not a cyberattack or software vulnerability. The other options are all forms of cyber threats that can compromise a computer's security or functionality.

Important Key Points:

1. **SQL Injection** is a type of attack that targets databases by injecting malicious SQL queries.
2. **DOS (Denial of Service) Attack** is a method of overwhelming a system with traffic to make it unavailable to users.
3. **Phishing** involves tricking users into revealing sensitive information such as passwords or credit card details.

Knowledge Booster:

- **Power Surge** can damage hardware but is not classified as a cyber threat. It can result from electrical issues but does not involve malicious intent.
- **SQL Injection** exploits vulnerabilities in applications that use SQL databases.
- **DOS Attack** disrupts service by overloading a network or server.
- **Phishing** uses deceptive emails or websites to obtain sensitive information.

S65. Ans. (c)

Sol. In **CISC**, which stands for **Complex Instruction Set Computer**, the letter **I** refers to **Instruction**. CISC is a type of computer architecture where single instructions can execute multiple low-level operations, such as loading from memory, performing arithmetic, and storing results in memory.

Important Key Points:

1. **CISC** architecture allows complex instructions to perform multiple operations, reducing the number of instructions per program.
2. It contrasts with **RISC** (Reduced Instruction Set Computer), where simpler instructions are used, and more are required to perform a task.

Knowledge Booster:

- **Internet** refers to the global network, unrelated to CISC architecture.
- **Integration** involves combining components but is not relevant in the context of CISC.
- **Information** is not specific to computer architecture.
- **Interface** refers to the interaction between systems but is not part of the CISC acronym.

S66. Ans. (d)

Sol. The decimal number **15** can be converted to binary by repeatedly dividing the number by 2 and recording the remainders. Starting with 15, the binary equivalent is:

- $15 \div 2 = 7$, remainder 1
- $7 \div 2 = 3$, remainder 1
- $3 \div 2 = 1$, remainder 1
- $1 \div 2 = 0$, remainder 1

Reading the remainders from bottom to top, the binary representation of **15** is **1111**.

Important Key Points:

1. Binary numbers consist of only 0s and 1s, representing powers of 2.
2. The binary number **1111** represents $1 \times 2^3 + 1 \times 2^2 + 1 \times 2^1 + 1 \times 2^0 = 8 + 4 + 2 + 1 = 15$.

Knowledge Booster:

- **1001** is the binary representation for 9.
- **1100** is the binary representation for 12.
- **1010** is the binary representation for 10.
- **1000** is the binary representation for 8.

S67. Ans. (b)

Sol. India's first computer, **HEC-2M**, was installed at the **Indian Statistical Institute (ISI)** in **Kolkata** in 1955. It was one of the earliest computers used in the country for statistical and scientific purposes. The installation of this computer marked the beginning of computing in India and was a significant development in the field of technology.

Important Key Points:

1. **HEC-2M** was among the first computers used in India and contributed greatly to research and academic advancements.
2. Kolkata (then Calcutta) became the initial hub for computing in India with this installation.

Knowledge Booster:

- **Mumbai** is known for being a financial hub, but it didn't host the first computer in India.
- **Bengaluru** is now the IT capital of India but didn't have the first computer.
- **Delhi** and **Chennai** are significant cities, but neither was home to India's first computer.

S68. Ans. (c)

Sol. **Bing** is the search engine developed by Microsoft. It was launched in 2009 as a successor to earlier Microsoft search engines, and it offers web, image, and video search capabilities. Bing is integrated into several Microsoft services and products, including the Windows operating system and the Edge web browser.

Important Key Points:

1. **Bing** is Microsoft's answer to other popular search engines like Google and Yahoo.
2. It is used as the default search engine in Microsoft's Edge browser.

Knowledge Booster:

- **Google** is developed by Google LLC, not Microsoft.
- **Yahoo** is another search engine, but it is not owned by Microsoft.
- **DuckDuckGo** is known for its focus on privacy but is not affiliated with Microsoft.
- **Baidu** is a Chinese search engine, not related to Microsoft.

S69. Ans. (b)

Sol. **Vint Cerf** is widely recognized as the "Father of the Internet." Along with Robert E. Kahn, he developed the **TCP/IP** protocol, which is the fundamental technology that powers the Internet. His work laid the foundation for the modern global network, allowing computers to communicate over vast distances.

Important Key Points:

1. **Vint Cerf** and **Robert E. Kahn** co-designed the **TCP/IP** protocol suite, which enabled the creation of the Internet.
2. The development of this protocol in the 1970s was crucial for establishing the foundation for the Internet as we know it today.

Knowledge Booster:

- **Tim Berners-Lee** is credited with inventing the World Wide Web (WWW), not the Internet itself.
- **Bill Gates** co-founded Microsoft but is not related to the invention of the Internet.
- **Steve Jobs** co-founded Apple, but he is not considered a pioneer of the Internet.
- **Marc Andreessen** co-authored Mosaic, one of the first web browsers, but is not the father of the Internet.

S70. Ans. (a)

Sol. **Word Matrix** is not a type of printer. It is an incorrect term in this context. **Dot Matrix**, **Laser**, **Inkjet**, and **Thermal** are all legitimate types of printers used for different printing technologies.

Important Key Points:

1. **Dot Matrix** printers use a print head that moves back and forth and prints by impact, pressing an ink-soaked ribbon against the paper.
2. **Laser** printers use a laser beam to create an image on a drum, which is then transferred to paper using toner.
3. **Inkjet** printers spray tiny droplets of ink onto paper to form text or images.
4. **Thermal** printers use heat to transfer images onto thermal paper.

Knowledge Booster:

- **Word Matrix** does not exist as a printer type and is unrelated to any printing technology.
- **Dot Matrix** printers are among the oldest impact printers still in use for specific purposes.
- **Laser** printers are known for high-speed and high-quality printing, especially in offices.
- **Inkjet** printers are commonly used in homes and small offices for color and photo printing.
- **Thermal** printers are used in point-of-sale systems and for printing receipts.

S71. Ans. (b)

Sol. The shortcut key **Ctrl + H** is used to open the **Find and Replace** dialog box in most word processing programs, including MS Word. This allows users to search for specific text in the document and replace it with new text.

Important Key Points:

1. **Ctrl + H** opens the Find and Replace tool, enabling users to efficiently replace instances of text or formatting throughout the document.
2. This shortcut enhances productivity by automating the process of finding and modifying text.
3. **F5** can be used to open the **Find and Go To** window, allowing users to jump to specific locations within the document, but it does not include the replace function.

Knowledge Booster:

- **Ctrl + F** is used to find specific text in a document but does not open the replace function.
- **Ctrl + R** is used to align text to the right in most word processors.
- **Ctrl + G** is used to go to a specific page, section, or line in the document.
- **Ctrl + P** is the shortcut for printing the document.

S72. Ans. (a)

Sol. A **Nibble** is half of a byte, consisting of **4 bits**. A byte is made up of 8 bits, so half of that is 4 bits, which is referred to as a nibble. Nibbles are commonly used in computing, particularly in systems that work with hexadecimal numbers.

Important Key Points:

1. A **Nibble** is composed of 4 bits, and 2 nibbles make up a byte.
2. Nibbles are often used in digital systems and hexadecimal representations, where each hexadecimal digit corresponds to 4 bits (or 1 nibble).

Knowledge Booster:

- A **Bit** is the smallest unit of data in computing, representing a single binary value of 0 or 1.
- A **Word** refers to a group of bits processed as a single unit by the CPU, typically larger than a byte.
- **Kilobyte** is a unit of data storage equal to 1024 bytes.
- **Megabyte** is a unit of data storage equal to 1024 kilobytes.

S73. Ans. (b)

Sol. The shortcut key **Ctrl + M** is used to add a new slide in **Microsoft PowerPoint**. This allows users to quickly insert a new slide without navigating through the menus, enhancing productivity while creating presentations.

Important Key Points:

1. **Ctrl + M** directly adds a new slide in PowerPoint, making it a crucial shortcut for presentation design.
2. This shortcut works universally across most versions of PowerPoint, making it widely applicable.

Knowledge Booster:

- **Ctrl + N** is used to create a new presentation, not to add a slide.
- **Ctrl + S** is used to save the presentation.
- **Ctrl + P** is used to print the presentation.
- **Ctrl + T** is used for opening the Font dialog box in many applications, but not for adding a new slide.

S74. Ans. (c)

Sol. **SSD (Solid State Drive)** is the fastest memory among the options provided. SSDs use flash memory and have no moving parts, which allows them to access and transfer data much faster than traditional storage media like CDs, DVDs, or hard disks.

Important Key Points:

1. **SSDs** provide significantly faster read/write speeds compared to optical media (CD/DVD) and traditional hard disks.
2. SSDs are commonly used in modern computers and laptops due to their speed and reliability, especially for running operating systems and applications.

Knowledge Booster:

- **CD** and **DVD** are optical storage media with much slower data access speeds compared to SSDs.
- **Flash Drives** are portable storage devices, but their read/write speeds are typically slower than SSDs.
- **Hard Disks** (HDDs) have mechanical parts, making them slower than SSDs for data access.

S75. Ans. (b)

Sol. The shortcut key **Ctrl + R** is used to refresh or reload a web page in most web browsers. Pressing this combination forces the browser to reload the current page, ensuring that the user sees the latest version of the website.

Important Key Points:

1. **Ctrl + R** is commonly used in web browsers like Chrome, Firefox, and Edge for refreshing a web page.
2. The refresh action helps retrieve the latest data from the server or reloads the current state of the webpage.

Knowledge Booster:

- **Ctrl + F** is used to find specific text on a webpage.
- **Alt + F4** is used to close the current window or application.
- **Ctrl + F6** is used for switching between open documents in some applications.
- **Shift + R** does not refresh a web page.

S76. Ans. (c)

Sol. A key feature of **Dot Matrix Printers** is their ability to **print multiple copies using carbon paper**. This is because dot matrix printers use an impact mechanism, where the print head strikes an ink ribbon to form characters on the paper, allowing them to produce multiple copies simultaneously if carbon paper is placed between the sheets.

Important Key Points:

1. **Dot Matrix Printers** are impact printers, making them suitable for tasks that require printing multiple copies using carbon paper, such as receipts and invoices.
2. Although outdated compared to modern printers, dot matrix printers are still used in specific applications where such functionality is needed.

Knowledge Booster:

- **Coloured Printing** is not a feature of dot matrix printers, as they are typically limited to monochrome.
- **High-Resolution Printing** is not characteristic of dot matrix printers; they offer lower resolution compared to modern printers like inkjet or laser.
- **Quiet Printing** is not a feature of dot matrix printers; they tend to be noisier than modern non-impact printers.
- **Laser Precision** is a feature of laser printers, not dot matrix printers.

S77. Ans. (b)

Sol. The **Insert** tab in MS PowerPoint allows users to add various elements such as tables, charts, pictures, and other media into slides. It is the primary tab for inserting content that enhances the visual appeal and functionality of a presentation.

Important Key Points:

1. The **Insert** tab provides options for adding tables, charts, images, shapes, and media files like audio and video.
2. It is essential for creating dynamic and visually engaging presentations by including multimedia elements.

Knowledge Booster:

- The **Home** tab contains basic formatting options but is not used for inserting tables, charts, or pictures.
- The **Design** tab is used for slide design and themes, not for adding content elements.
- The **View** tab allows you to change the view of your presentation but not to insert content.
- The **Review** tab is primarily for checking spelling, grammar, and adding comments, not for inserting tables or charts.

S78. Ans. (b)

Sol. The **Conversation View** feature groups emails with the same subject line into a single conversation. This feature helps users keep track of email threads more easily by displaying all related messages in a collapsed view, avoiding clutter in the inbox.

Important Key Points:

1. **Conversation View** is commonly used in email clients like Gmail and Outlook to organize related emails into one thread.
2. It helps users follow discussions and responses in an organized manner, making it easier to manage long email exchanges.

Knowledge Booster:

- **Spam Filter** is used to detect and move unwanted or suspicious emails to the spam folder.
- **Thread Sorting** refers to manually organizing emails but is not a specific feature for grouping emails automatically.
- **Email Archiving** is used to store old emails for future reference, but it does not group emails by subject.
- **Priority Inbox** is a feature that sorts emails by importance, not by grouping them into conversations.

S79. Ans. (a)

Sol. **Autofill** is a feature in web browsers that automatically fills in information such as usernames, passwords, addresses, and payment details on web forms. This feature saves time by retrieving previously stored information and applying it to the appropriate fields on a web page.

Important Key Points:

1. **Autofill** can store commonly used information like login credentials, shipping addresses, and payment methods, making online transactions and form submissions quicker.
2. It is available in most web browsers, such as Chrome, Firefox, and Edge.

Knowledge Booster:

- **Cache** stores temporary data from websites to speed up page loading, but it does not autofill forms.
- **Cookies** are small data files used to track user sessions and preferences, but they do not fill in information.
- **Bookmarks** are used to save web page URLs for quick access, but they do not autofill forms.
- **Pop-up Blocker** prevents unwanted pop-up windows from appearing but has no role in filling forms.

S80. Ans. (c)

Sol. **Linux** is a widely used open-source operating system. It is freely available and can be modified and distributed by anyone. Linux is popular for its flexibility, security, and use in a wide range of devices, from servers to personal computers.

Important Key Points:

1. **Linux** is known for being open-source, allowing users to access its source code and customize it as needed.
2. It is highly regarded for its security, stability, and widespread use in servers, development environments, and even smartphones (via Android).

Knowledge Booster:

- **Windows** is a closed-source operating system developed by Microsoft.
- **macOS** is a proprietary operating system by Apple.
- **iOS** is the operating system for Apple's mobile devices and is not open-source.
- **Splunk** is not an operating system; it is a platform for searching, monitoring, and analyzing machine-generated data.

S81. Ans. (c)

Sol. **Razorpay**, a prominent fintech unicorn, has launched its own UPI infrastructure called "UPI Switch".

This product is developed in collaboration with Airtel Payments Bank and is designed to handle high transaction volumes of up to 10,000 transactions per second while improving success rates by 4-5%.

S82. Ans. (a)

Sol. The Indian women's badminton team, with Anmol Kharb playing a key role, clinched their first-ever gold medal at the Badminton Asia Team Championships by defeating Thailand in the final. The thrilling match took place in **Shah Alam, Selangor, Malaysia**.

S83. Ans. (d)

Sol. Earlier, IRDAI had set a maximum age limit of **65 years** for purchasing new health insurance policies. However, with the recent regulation effective from April 1, 2024, this age restriction has been removed, allowing individuals of any age to buy health insurance.

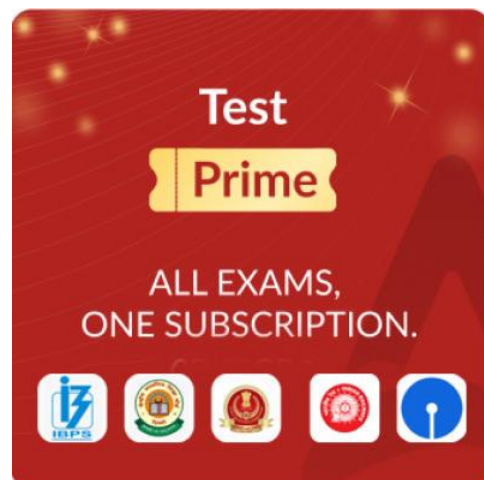
Static facts about the Insurance Regulatory and Development Authority of India (IRDAI):

1. **Established:** 1999
 - The IRDAI was constituted by the **Insurance Regulatory and Development Authority Act, 1999**.
2. **Headquarters:** Hyderabad, Telangana
 - Originally based in Delhi, the IRDAI shifted its headquarters to Hyderabad in 2001.
3. **Chairperson:** As of October 2024, the Chairperson of IRDAI is **Debasish Panda**.
4. **Primary Objective:**
 - To **protect policyholders' interests** and **regulate, promote, and ensure the orderly growth** of the insurance industry in India.

S84. Ans. (e)

Sol. Navratna Public Sector Enterprises (PSEs), including IREDA, which recently achieved Navratna status, have the autonomy to make investments of up to **₹1,000 crore** without requiring government approval.

This is part of the financial freedom granted to Navratna PSEs for strategic expansion.



Brief overview of Maharatna, Navratna, and Miniratna statuses:

Maharatna:

- **Eligibility:** Navratna status, annual turnover > ₹25,000 crore, net profit > ₹5,000 crore, and listed on the stock exchange.
- **Privileges:** Can invest up to **₹5,000 crore** or **15% of net worth** without government approval.

Navratna:

- **Eligibility:** Miniratna (Category I), strong financials, and a score of 60/100 on key performance criteria.
- **Privileges:** Can invest up to **₹1,000 crore** or **15% of net worth** without government approval.

Miniratna:

- **Category I:** Continuous profit for 3 years; can invest up to **₹500 crore** or **net worth**.
- **Category II:** Profit for 3 years with positive net worth; can invest up to **₹300 crore** or **50% of net worth**.

S85. Ans. (c)

Sol. In S.A.R.A.H., the "S" stands for **Smart**.

S.A.R.A.H. is the **Smart AI Resource Assistant for Health**, a digital health promoter designed to engage users on health topics in multiple languages using advanced AI technology.

Static Facts - World Health Organisation (WHO):

- The World Health Organization is a specialized agency of the United Nations responsible for international public health.
- **Founded:** 7 April 1948
- **Headquarters:** Geneva, Switzerland

S86. Ans. (d)

Sol. Ruturaj Gaikwad is the captain of Chennai Super Kings.

Brief Information about the IPL and Previous Seasons:

- **Indian Premier League (IPL):**
 - **Establishment:** The IPL was founded by the Board of Control for Cricket in India (BCCI) in 2008.
 - **Format:** It is a professional Twenty20 cricket league, where franchise teams representing different cities in India compete annually.
 - **Popularity:** IPL is one of the most-watched sports leagues globally, known for its blend of high-octane cricket, entertainment, and fan engagement.
- **Previous Seasons and Winners:**
 - **2008:** Rajasthan Royals (RR)
 - **2009:** Deccan Chargers (DC)
 - **2010, 2011, 2018, 2021, 2023:** Chennai Super Kings (CSK)
 - **2012, 2014:** Kolkata Knight Riders (KKR)
 - **2013, 2015, 2017, 2019, 2020:** Mumbai Indians (MI)
 - **2016:** Sunrisers Hyderabad (SRH)
 - **2022:** Gujarat Titans (GT)

S87. Ans. (b)

Sol. Hindustan Aeronautics Limited (HAL) received the "Outstanding PSU of the Year" award at the All India Management Association (AIMA) Managing India Awards ceremony.

Overview:

The award was conferred by Vice-President Jagdeep Dhankhar on April 23, 2024, in Delhi.

HAL reported the highest-ever revenue from operations, exceeding ₹29,810 crore for the financial year ending March 31, 2024, reflecting a double-digit growth of around 11%.

Established in 1957, AIMA is India's apex body for the management profession and aims to support leadership and managerial excellence in the country.

S88. Ans. (d)

Sol. Surat, located in Gujarat, is known as the "Diamond City of India" due to its status as a major hub for diamond cutting and polishing, handling a large share of the world's diamonds.

Some Indian cities along with their popular nicknames:

1. Ahmedabad, Gujarat

- **Nickname:** Manchester of India
- **Reason:** Known for its textile industry, similar to Manchester in the UK.

2. Bangalore (Bengaluru), Karnataka

- **Nickname:** Silicon Valley of India
- **Reason:** Major hub for IT companies and startups.

3. Mumbai, Maharashtra

- **Nickname:** City of Dreams / Financial Capital of India
- **Reason:** Hub of Bollywood and India's financial sector.

4. Kolkata, West Bengal

- **Nickname:** City of Joy
- **Reason:** Known for its rich cultural heritage and festivals.

5. Jaipur, Rajasthan

- **Nickname:** Pink City
- **Reason:** The city was painted pink to welcome Prince Albert in 1876.

6. Hyderabad, Telangana

- **Nickname:** City of Pearls
- **Reason:** Famous for its pearl and diamond trading.

7. Chennai, Tamil Nadu

- **Nickname:** Detroit of India
- **Reason:** Leading automobile manufacturing hub in India.

8. Varanasi, Uttar Pradesh

- **Nickname:** City of Temples / Spiritual Capital of India
- **Reason:** One of the oldest cities, known for its temples and religious significance.

9. Pune, Maharashtra

- **Nickname:** Oxford of the East
- **Reason:** Famous for its educational institutions.

10. Udaipur, Rajasthan

- **Nickname:** City of Lakes
- **Reason:** Known for its beautiful lakes and palaces.

11. Amritsar, Punjab

- **Nickname:** Golden City
- **Reason:** Home to the Golden Temple, the holiest shrine in Sikhism.

12. Lucknow, Uttar Pradesh

- **Nickname:** City of Nawabs
- **Reason:** Historically ruled by Nawabs, known for its culture and cuisine.

13. Indore, Madhya Pradesh

- **Nickname:** Cleanest City of India
- **Reason:** Ranked the cleanest city under the Swachh Bharat Abhiyan.

14. Agra, Uttar Pradesh

- **Nickname:** City of Taj
- **Reason:** Home to the iconic Taj Mahal, a UNESCO World Heritage site.

15. Jodhpur, Rajasthan

- **Nickname:** Blue City
- **Reason:** Houses painted in blue, especially in the old city area.

S89. Ans. (d)

Sol. Statements 1 and 3 are correct.

The Attorney General of India is the **chief legal advisor** to the Union Government and represents it in the Supreme Court and High Courts (Statement 1).

The Attorney General is part of the **Union Executive** but is **not a member of the Central Cabinet** (Statement 3).

Statement 2 is incorrect, as legal matters at the government level are handled by a separate Law Minister, not the AGI.

S90. Ans. (c)

Sol. Statements 1 and 3 are correct.

The **Jeevan Raksha Padak Awards** were instituted in 1961 and are part of the Ashoka Chakra series (Statement 1). These awards can be given **posthumously** and are open to all persons regardless of gender (Statement 3).

Statement 2 is incorrect, as the **Sarvottam Jeevan Raksha Padak** is awarded for **conspicuous courage** in saving life under **very great danger**, not just grave bodily injury, which pertains to the **Jeevan Raksha Padak**.

S91. Ans. (e)

Sol. The major sources of funding for SHGs include the **Bank Linkage Program (SHG-BLP)**, **National Rural Livelihood Mission (NRLM)**, **Microfinance Institutions (MFIs)**, **Corporate Social Responsibility (CSR) Initiatives**, and the **Internal Savings and Lending** by SHG members. All these sources play a significant role in providing financial support to SHGs.

Detailed Overview - Self Help Groups (SHGs):

- **Definition:** SHGs are small, voluntary groups of people (usually 10-20 members) who come together to save money and provide loans to each other, typically in rural areas.
- **Purpose:** To promote financial inclusion, empowerment (especially women), and encourage savings and credit facilities.
- **Membership:** Primarily women, though men can also be members. Each member contributes a fixed amount of savings regularly.
- **Functioning:** SHGs pool savings from members and offer small loans to members for personal or entrepreneurial purposes at a nominal interest rate.
- **Bank Linkage:** SHGs are linked to formal banking institutions through programs like the **SHG-Bank Linkage Program (SHG-BLP)** for larger credit access.

- **Key Promoters:** SHGs are promoted by **NABARD**, **NGOs**, **government agencies**, and **Microfinance Institutions (MFIs)**.
- **Support from Government:** Programs like **National Rural Livelihood Mission (NRLM)** provide financial support, capacity building, and interest subvention schemes.
- **Benefits:** Enhances financial literacy, provides access to credit, fosters entrepreneurship, and promotes economic self-reliance.
- **Key Activities:** SHGs engage in various activities such as agriculture, handicrafts, and small-scale industries, enabling economic upliftment of members.
- **Decision-making:** SHGs are usually self-governed, with members deciding on loan distribution, interest rates, and other group matters collectively.

S92. Ans. (c)

Sol. Under the **TREAD scheme**, the Government of India provides a grant of **30%** of the loan or credit sanctioned to NGOs for capacity-building activities like training, counseling, participation in exhibitions, and forming new SHGs, among other approved activities.

The maximum ceiling for this grant is ₹30 lakhs.

Detailed Overview - Trade Related Entrepreneurship Development Assistance Scheme (TREAD):

- **Objective:** The scheme aims at the **economic empowerment of women** by promoting self-employment and income generation activities in the **non-farm sector**.
- **Grant Provision:**
 - The Government of India provides a grant of up to **30%** of the loan or credit sanctioned, with a **maximum ceiling of ₹30 lakhs**.
 - This grant is given to **NGOs** for capacity-building activities such as training, counseling, participation in exhibitions, and establishing new **Self-Help Groups (SHGs)**.
- **Capacity Building Activities Include:**
 - **Training, counseling**, participation in **exhibitions**, and establishment of new **SHGs**.
 - Other components as appraised and approved by **Lending Institutes/Banks** and the **Steering Committee**.
- **Eligible Non-Farming Activities:**
 - **Tailoring, Handicrafts, Embroidery, Toy making, Readymade garments, Candle making, Agarbatti making.**
 - **Paper cup and plate making, Masala powder making, Saree weaving, Coir mat making, Pickles making, Basketry, Jute bag making.**
 - **Brooms making**, and other similar activities.
- **Target Group:**
 - The scheme focuses on **women entrepreneurs**, particularly from **Self-Help Groups (SHGs)**, working in **non-farm sectors** to promote self-employment and enhance their income-generating capabilities.

S93. Ans. (d)

Sol. The **Kalam-250** is the Stage-2 engine of the **Vikram-1** space launch vehicle, successfully test-fired by **Skyroot Aerospace** at ISRO's **Satish Dhawan Space Centre** in Sriharikota, Andhra Pradesh.

This marks a significant milestone as Vikram-1 is India's first private orbital rocket launch, following the suborbital launch of **Vikram-S** in November 2022.

Static facts about Skyroot Aerospace:

- **Founded:** June 2018
- **Founders:** Pawan Kumar Chandana and Naga Bharath Daka (both former ISRO scientists)
- **Headquarters:** Hyderabad, Telangana, India
- **Primary Focus:** Developing **private space launch vehicles** for small satellites
- **Key Product Line:** **Vikram series** of rockets (named after Dr. Vikram Sarabhai, the founder of the Indian space program)
 - **Vikram-I, Vikram-II, Vikram-III** are their planned launch vehicles.

S94. Ans. (c)

Sol. Rezwana Choudhury Bannya received the **Padma Shri** award for her outstanding contributions to the field of art.

She is a renowned figure in the music industry and runs the music school "Shurer Dhara" in Dhaka, in addition to her work in the university's Department of Dance.

Overview- Padma Shri Awards:

- **Established:** The **Padma Awards** were instituted in **1954**.
- **Frequency:** Awarded annually on **Republic Day** (January 26).
- **Nomination Process:** Nominations are made by the government, with contributions reviewed by a committee.
- **Posthumous Awards:** Can be awarded posthumously in rare cases.
- **Exclusions:** These awards are not for those serving in positions of profit or officials holding government posts.

S95. Ans. (c)

Sol. Under the **Deendayal Antyodaya Yojana – National Rural Livelihoods Mission (DAY-NRLM)**, Self Help Groups (SHGs) and their federations are empowered through funding support in the form of a **Revolving Fund (RF)** and a **Community Investment Fund (CIF)**.

These funds are aimed at increasing their income and improving their quality of life.

Detailed Overview - Deendayal Antyodaya Yojana – National Rural Livelihood Mission (DAY-NRLM):

- **Launch Year:** Originally launched as **National Rural Livelihood Mission (NRLM)** in **2010**.
- **Renaming:** Renamed as **DAY-NRLM (Deendayal Antyodaya Yojana – National Rural Livelihood Mission)** on **March 29, 2016**.
- **Objective:** Aims to address **rural poverty** by promoting sustainable livelihood opportunities for the rural poor.
- **Funding:** **Centrally sponsored scheme**, funded jointly by the **Central and State Governments**.
- **Implementation Structure:**
 - At the **state level**, implementation is done through **State Rural Livelihood Missions (SRLMs)**, which act as **Special Purpose Vehicles**.
 - At the **district level**, planning and implementation are handled by the **District Mission Management Unit (DMMU)**, under the control of district administration.
 - At the **block level**, the **Block Mission Management Unit (BMMU)** is responsible for implementing mission activities.
- **Phased Implementation:** The Mission is implemented in a **phased and intensive manner**, targeting specific blocks each year for development.

This mission focuses on creating sustainable income generation for rural households by providing support through **Self-Help Groups (SHGs)** and other livelihood activities.

S96. Ans. (b)

Sol. The CDP-SURAKSHA is primarily aimed at promoting the **horticulture sector** in India.

- **Objective:**
- The programme is designed to promote the growth of the horticulture sector by providing an efficient, digital platform for subsidy disbursement to farmers at the time of purchasing planting materials.
- **Platform Features:**
 - e-RUPI voucher system by NPCI for instant subsidy disbursal.
 - Database integration with PM-KISAN and UIDAI validation for secure transactions.
 - Geotagging, geo-fencing, and content management system to ensure transparency.
- **Beneficiaries:**
 - **Farmers:** Instant subsidy in their bank accounts, reducing bureaucratic delays.
 - **Vendors:** Payment is made after farmers verify receipt of planting materials.
 - National Horticulture Board (NHB) officials and cluster development agencies (CDAs) also have access to the platform for oversight.
- **Significance:**
- The horticulture sector contributes nearly one-third to India's agricultural gross value addition (GVA), with production rising from 240.53 million tonnes in 2010-11 to 334.60 million tonnes in 2020-21.

This digital initiative aims to enhance transparency, ensure timely support to farmers, and push the growth of the horticulture sector in India.

S97. Ans. (c)

Sol. The Global Risk Report 2024 is released by the **World Economic Forum (WEF)**.

- **Objective:**
- The report aims to identify, assess, and analyze the most significant global risks expected to affect the world in the short term (2 years) and the long term (10 years). It focuses on economic, environmental, geopolitical, societal, and technological risks.
- **Key Focus Areas of the 2024 Report:**
 - **Economic:** Rising inflation, energy crises, and global debt burdens.
 - **Environmental:** Climate change, biodiversity loss, and extreme weather events.
 - **Geopolitical:** Tensions between major powers, conflicts, and rising protectionism.
 - **Societal:** Social unrest, pandemics, and healthcare system disruptions.
 - **Technological:** Cybersecurity threats, misuse of digital technology, and the impact of AI.
- **Significance:**
- The report is used by policymakers, business leaders, and international organizations to anticipate and mitigate global risks. It provides valuable insights for decision-makers to prioritize strategic planning and resource allocation in preparation for potential crises.
- **Recent Findings:**
- The 2024 report highlights the increasing convergence of environmental and geopolitical risks, stressing the need for collaboration on global challenges such as climate change, cybersecurity, and economic instability.

S98. Ans. (d)

Sol. The Tattvabodhini Sabha was founded by **Debendranath Tagore** in Kolkata on October 6, 1839.

- **Objective:**
- The Sabha was established to promote the study of ancient Hindu scriptures, especially the Upanishads, and focused on the systematic study of India's history with a rational perspective, while promoting the ideas of Raja Rammohan Roy.

- **Key Contributions:**
 - Reviving the Brahmo Samaj movement after the death of Raja Ram Mohan Roy.
 - Encouraging rational discussions on religious and social reforms.
 - Promoting education and modern thinking among Bengali intellectuals during the 19th century.
- **Impact:**
- The Sabha played a pivotal role in the Indian Renaissance, influencing social and religious reform movements across India. Debendranath Tagore, father of the Nobel laureate Rabindranath Tagore, was instrumental in spreading progressive ideas during the period.

S99. Ans. (b)

Sol. Philemon Yang, former Prime Minister of Cameroon, was elected to serve as the President of the 79th Session of the United Nations General Assembly (UNGA) on June 6, 2024.

- **United Nations General Assembly (UNGA):**
 - **Established Year:** The UNGA was established in 1945, as one of the six main organs of the United Nations following the end of World War II.
 - It serves as the main deliberative and policymaking body of the United Nations, where all 193 member states have equal representation.
- **Role of the President of the UNGA:**
 - The President of the General Assembly is elected annually and oversees the UNGA sessions, facilitating discussions, and ensuring that procedural rules are adhered to.
 - The President represents the General Assembly and plays a key role in driving international dialogue on global challenges.
- **Significance of the 79th Session:**
- The 79th Session, led by Philemon Yang, will prioritize addressing global issues like climate change, sustainable development, and international peace and security.

S100. Ans. (a)

Sol. Delhi Metro Rail Corporation (DMRC) has partnered with **Airtel Payments Bank** to facilitate digital payment solutions for commuters, including processing National Common Mobility Card (NCMC) transactions.

- **National Common Mobility Card (NCMC):**
 - NCMC is a contactless payment card that can be used for various public transport systems, including metros and buses, and also for retail purchases, ATM withdrawals, and e-commerce transactions.
 - The card provides seamless travel and payment options across the country in any open loop system.
- **Partnership Features:**
 - Airtel Payments Bank will handle the processing and maintenance of NCMC transactions for customers.
 - The bank will issue NCMC-enabled cards at metro stations for use in Delhi Metro and other public transport systems across the country.
- **Benefits for Commuters:**
 - The partnership will enhance digital ticketing solutions, providing passengers with an easy and seamless experience for metro travel.
 - Commuters can use the NCMC for traveling across all lines of the Delhi Metro, including the Airport Express line.

S101. Ans. (c)

Sol. India's net direct tax collections for 2023-24 grew by **17.7%**, hitting **₹19.58 lakh crore**, which slightly surpassed the Revised Estimates (RE).

- **Direct Tax Performance:**
 - The net direct tax collections exceeded the **Budget Estimates (BE)** of ₹18.23 lakh crore by **7.40%** and the **Revised Estimates (RE)** of ₹19.45 lakh crore by **0.67%**.
 - This increase was fueled primarily by a **surge in personal income tax**, whose share rose to **53.3%** of total tax collections, compared to **50.06%** in the previous year.
- **Corporate Tax Contribution:**
 - The share of corporate tax in total direct tax collections decreased to **46.5%**, down from **49.6%** in the previous year, marking a shift toward higher reliance on personal income tax revenue.

S102. Ans. (d)

Sol. Medaram Jatara is celebrated in the state of **Telangana**.

About Medaram Jatara:

- Also known as **Sammakka Saralamma Jatara**.
- A biennial festival celebrated to honor the goddesses **Sammakka** and **Saralamma**.
- Commemorates a 12th-century revolt by the mother-daughter duo against the oppressive taxation by Kakatiya rulers during a drought.
- Primarily celebrated by the **Koya tribe**, but millions of devotees from all backgrounds participate.
- Recognized as a **state festival** in 1998.
- Celebrated in **February** during the full moon of the Magha month.

S103. Ans. (b)

Sol. Hindustan Zinc Limited (HZL), a unit of the Vedanta group, has become the **third-largest silver producer globally**, as per the World Silver Survey 2024.

Key Highlights:

- **Global Ranking:** Hindustan Zinc Limited is now the third-largest silver producer in the world.
- **Sindesar Khurd Mine:** The Sindesar Khurd Mine, operated by HZL, is the second-largest silver-producing mine globally, moving up from fourth place last year.
- **Record Silver Production:** HZL produced **746 tonnes** of silver, achieving a 5% year-on-year growth in production, driven by increased ore extraction and enhanced grades.

S104. Ans. (a)

Sol. Option (a) is correct. NABARD's partnership with Reserve Bank Innovation Hub's (RBIH) aims to speed up Kisan Credit Card (KCC) loan processing by integrating its e-KCC system with RBIH's tech platform. This will reduce loan processing time from four weeks to **five minutes**.

Key Beneficiaries:

- **District Cooperative Banks**
- **State Cooperative Banks**
- **Regional Rural Banks (RRBs)**

S105. Ans. (c)

Sol. EVMs were first introduced in India in the **year 1982**, in the Paravur Assembly constituency in Ernakulam.

Purpose: EVMs were introduced to replace paper ballots, aimed at improving accuracy and speeding up the election process.

- **Key Components:**
 - **Ballot Unit:** Used by voters to cast their votes.
 - **Control Unit:** Operated by officials to control the process and track votes.
- **First Use:** In the 1982 elections, EVMs were used in 50 polling stations.
- **Benefits:**
 - Faster counting of votes.
 - Prevention of vote tampering.
 - Elimination of invalid votes.
- **Wider Adoption:** EVMs were progressively implemented across India, becoming the standard voting method in subsequent elections.

S106. Ans. (c)

Sol. Peter Higgs won the Nobel Prize in Physics for his work on the "**God particle**," officially known as the Higgs boson.

Details-

- **God Particle:** The "God particle" refers to the Higgs boson, a crucial element in the Standard Model of physics.
- **Higgs Field:** The Higgs boson is connected to the Higgs field, which gives mass to other elementary particles.
- **Nobel Prize:** Peter Higgs, along with François Englert, was awarded the Nobel Prize in 2013 for predicting the existence of this particle, confirmed by CERN experiments in 2012.
- **Significance:** This discovery was a major step in understanding how particles acquire mass, fundamentally reshaping modern physics.

S107. Ans. (d)

Sol. Microsoft unveiled the **Phi-3-Mini**, the latest version of its lightweight small language model (SLM) designed to be more efficient and cost-effective.

Details-

- **Latest Version:** The Phi-3-Mini is an upgraded version of Microsoft's previous models, making it simpler and cheaper.
- **Local Operation:** It can run directly on devices like smartphones and computers without requiring an internet connection or expensive AI processors.
- **Performance:** Despite being small, it performs comparably to much larger models, making it a cost-effective solution for AI-powered tasks.
- **Usability:** Phi-3-Mini can run on regular chips found in everyday devices, expanding its accessibility.
- **Purpose:** It is intended to provide an efficient alternative to heavyweight models like OpenAI's GPT-4 Turbo.

S108. Ans. (b)

Sol. **Statements 1 and 2 are correct** about the PPF scheme, while statement 3 is incorrect.

Public Provident Fund (PPF) Scheme Details:

- **Minimum and Maximum Deposits:** The minimum deposit required in a PPF account per financial year is ₹500, and the maximum allowed deposit is ₹1.5 lakh. Investments can be made either as a lump sum or in a maximum of 12 installments per year.

- **Tenure:** The PPF account has a minimum tenure of 15 years. After this period, it **can be extended indefinitely in blocks of 5 years**, with or without additional deposits.
- **Loan Facility:** Loans can be taken from the PPF account starting from the 3rd financial year up to the 6th financial year. The loan amount is capped at 25% of the balance at the end of the second financial year preceding the year in which the loan is applied for.
- **Withdrawals:** Partial withdrawals are allowed every year starting from the 7th financial year.
- **Account Maturity:** The account matures after the completion of 15 financial years from the end of the year it was opened. After maturity, the account can either be extended for further 5-year blocks or retained indefinitely without further deposits, with interest continuing to accrue.
- **Tax Benefits:** The deposits made into a PPF account qualify for tax deduction under Section 80C of the Income Tax Act. The interest earned and the maturity proceeds are also tax-free.

S109. Ans. (c)

Sol. 144 products supported by NABARD have received Geographical Indication (GI) tags.

Details-

NABARD's Support:

- NABARD has facilitated the registration of many products, helping local artisans and producers benefit from GI tags.
- These tags enhance the market value of the products and improve the livelihoods of producers.

First GI Product Supported by NABARD:

- The first product to receive a GI tag with NABARD's support was Pochampally Ikat from Telangana.

Geographical Indication (GI):

- GI is a certification that indicates a product's origin from a specific region, attributing its qualities, reputation, or characteristics to that region.
- It protects the product's identity and ensures that only authorized users can use the GI tag.

Impact of GI Tags:

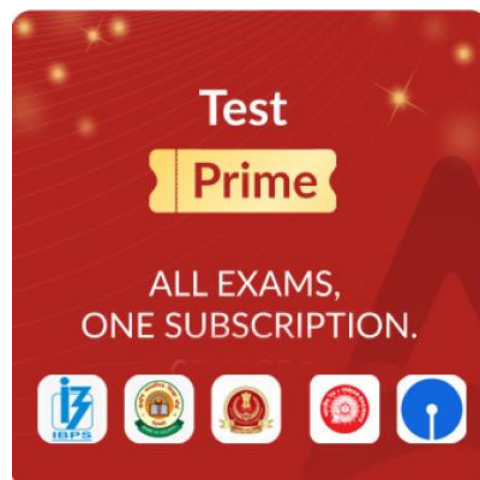
- GI tags help safeguard cultural heritage, enhance the marketability of traditional goods, and increase the earnings of artisans and local producers.

S110. Ans. (c)

Sol. The total corpus of the Fund of Funds for Startups (FFS) Scheme is **₹10,000 crore**.

Fund of Funds for Startups (FFS) Scheme:

- **Establishment:** FFS was approved and established in 2016 with a total corpus of ₹10,000 crore.
- **Objective:** The scheme was created to boost the Indian startup ecosystem and provide access to domestic capital for startups.
- **Operation:** The Small Industries Development Bank of India (SIDBI) operates the FFS, providing capital to SEBI-registered Alternate Investment Funds (AIFs), known as daughter funds.
- **Investment Requirement:** AIFs supported by FFS are required to invest at least twice the amount committed under the FFS scheme in Indian startups.
- **Capital Distribution:** The corpus is spread over the 14th and 15th Finance Commission cycles based on the progress of the scheme and availability of funds.



S111. Ans. (d)

Sol. IFFCO, a global leader in the fertilizer industry, has operations in several countries, but it does not have any operations in **Canada**.

IFFCO's Global Presence:

- **Oman:** IFFCO has established a large joint venture in Oman for the production of fertilizers, aimed at catering to global markets.
- **Jordan:** IFFCO has a joint venture in Jordan that focuses on producing phosphoric acid, which is a key component in fertilizer manufacturing.
- **Senegal:** IFFCO operates a joint venture in Senegal, contributing to the development of the fertilizer industry in West Africa.
- **India:** As a cooperative, IFFCO plays a crucial role in supporting Indian farmers by producing and distributing fertilizers across the country.

S112. Ans. (d)

Sol. In 2024, NATO celebrated its **75th anniversary** of collective defence.

NATO's Establishment:

- NATO (North Atlantic Treaty Organization) was formed in 1949 to promote peace and security through a collective defence alliance among its member nations.

Core Principle:

- NATO operates on the principle of collective defence (Article 5), meaning an attack against one member is considered an attack against all.

Member Countries:

- NATO originally began with 12 founding members: Belgium, Canada, Denmark, France, Iceland, Italy, Luxembourg, Netherlands, Norway, Portugal, the United Kingdom, and the United States.
- Over time, the alliance expanded, and as of 2024, NATO consists of 32 member countries.

Historical Importance:

- Over 75 years, NATO has evolved into a key global security organization, adapting to changing global threats and maintaining peace in the Euro-Atlantic region.

75 Years of Defence:

- The 75th anniversary in 2024 marks NATO's long-standing commitment to protecting member nations and promoting international stability.

S113. Ans. (b)

Sol. Statements 1 and 2 are correct, but statement 3 is incorrect.

GST Council:

- **Chairperson:** The Union Finance Minister serves as the Chairperson of the GST Council.
- **Members:** The Council includes the Union Minister of State for Revenue and the finance or taxation ministers from each state government.
- **Constitutional Provision:** The GST Council was established under Article 279A by the **101st Constitutional Amendment Act, 2016**, not the 111th Amendment. It plays a critical role in determining GST rates, policies, and regulations in India.
- **Quorum:** The Constitution specifies that one-third of the total number of GST Council members must be present to constitute the quorum for a meeting.

- **Voting Structure:** Decisions of the GST Council require a majority of not less than three-fourths of the weighted votes of the members present and voting. The votes of the Central Government and the State Governments are weighted at one-third and two-thirds, respectively.

S114. Ans. (e)

Sol. All of the listed titles—**Grandmaster (GM), International Master (IM), FIDE Master (FM), and Candidate Master (CM)**—are officially awarded to chess players based on their skills and performance.

Chess Titles:

- **Grandmaster (GM):** The highest title awarded by FIDE for exceptional performance.
- **International Master (IM):** One step below GM, for highly skilled players.
- **FIDE Master (FM):** A title awarded for demonstrating strong proficiency in chess.
- **Candidate Master (CM):** A lower title than FM, awarded to players with good tournament performance but below the FM level.

S115. Ans. (d)

Sol. The maximum insurance cover provided under the EDLI Scheme is **Rs. 7 lakh**.

Details-

- **Scheme Overview:** EDLI is an insurance scheme provided by the Employees' Provident Fund Organization (EPFO) and is automatically applicable to organizations under the EPF and Miscellaneous Provisions Act, 1952.
- **Eligibility:** All active members of EPFO are covered, and in the case of the member's death during the service period, their nominee or legal heir receives the benefit.
- **Combination of Schemes:** The EDLI scheme works in combination with the Employees' Provident Fund (EPF) and Employees' Pension Scheme (EPS).

S116. Ans. (c)

Sol. The PM Vishwakarma scheme provides collateral-free 'Enterprise Development Loans' of up to **Rs. 3 lakh**.

- **Scheme Overview:** Launched on 17th September 2023, this scheme supports artisans and craftspeople engaged in 18 traditional trades such as blacksmithing, carpentry, and tailoring.
- **Target Beneficiaries:** Craftspeople in trades like carpenters, potters, tailors, goldsmiths, and others.
- **Benefits of the Scheme:**
 1. **Recognition:** Artisans receive a PM Vishwakarma certificate and ID card.
 2. **Skill Upgradation:** Basic and advanced training with a stipend of Rs. 500 per day.
 3. **Toolkit Incentive:** Up to Rs. 15,000 through e-vouchers for toolkits.
- **Credit Support:**
 1. **Loan Structure:** Up to Rs. 3 lakh collateral-free loans, in two tranches of Rs. 1 lakh and Rs. 2 lakh, with tenures of 18 and 30 months.
 2. **Interest Rate:** 5% interest with 8% subvention from the government.
 3. **Eligibility:** The first tranche is available after basic training, and the second after maintaining a standard loan account or completing advanced training.
- **Objective:** To boost livelihood opportunities for traditional artisans with financial support, skill development, and modern tools.

S117. Ans. (c)

Sol. The new duration of the PLI Scheme for the Automobile and Auto Components sector is **2023-2028**.

- **Extension:**
 - The Ministry of Heavy Industries extended the PLI Scheme by one year after approval from the Empowered Group of Secretaries (EGoS).
 - This extension aims to provide flexibility and clarity to the scheme.
- **Incentive Duration:**
 - The incentive will now be applicable for five consecutive financial years starting from FY 2023-24.
 - Disbursement of incentives will begin in the financial year 2024-25.
 - The scheme will run until March 31, 2028, ensuring that approved applicants can claim benefits only within this period.
- **Eligibility Criteria:**
 - Approved applicants can receive benefits for five consecutive financial years, with incentives provided for a 10% year-on-year increase in Determined Sales Value over the first year's threshold.
 - If the threshold is not met in a particular year, the applicant will not receive the incentive but can still qualify in the next year upon meeting the target.
- **Total Incentive Outlay:**
 - The amended scheme sets a total indicative incentive amounting to Rs. 25,938 crore.
- **Objective:**
 - The scheme aims to boost investments, promote domestic manufacturing, and enhance the competitiveness of the automobile and auto components sector in India.

S118. Ans. (a)

Sol. Uttarakhand and Kerala have emerged as the top performer states in NITI Aayog's SDG India Index 2023-24.

Details-

- **Index Overview:** The SDG India Index evaluates states and union territories based on their progress toward Sustainable Development Goals across social, economic, and environmental factors.
- **India's Overall Score:** India's overall SDG score increased from 66 (2020-21) to 71 (2023-24), showing significant improvement.
- **Top-Performing States:** Uttarakhand and Kerala both scored 79, making them the joint top performers.
- **Follow-Up Performers:** Tamil Nadu scored 78, and Goa scored 77, following the top performers.
- **Worst Performers:** Bihar (57), Jharkhand (62), and Nagaland (63) ranked as the lowest among states in this year's index.

S119. Ans. (b)

Sol. Subhash Dandekar was the key figure responsible for diversifying Camlin into art materials in 1960 and served as its chairman emeritus.

Details-

- **Diversification:** In 1960, Subhash Dandekar led the company's expansion from stationery to art materials.
- **Chairman Emeritus:** He held the position of chairman emeritus at Kokuyo Camlin until his passing in 2024.
- **Company's Evolution:** Camlin, originally founded in 1931, underwent significant growth and transformations under his leadership.
- **Acquisition by Kokuyo:** In 2011, Japanese stationery giant Kokuyo Co. acquired a majority stake in Camlin.

S120. Ans. (c)

Sol. Novak Djokovic was named the Laureus World Sportsman of the Year at the 2024 Laureus Sports Awards. Djokovic, the world's top-ranked tennis player, achieved this prestigious honor for the fifth time, matching Roger Federer's record as the most decorated male athlete in this category. He had previously won the award in 2012, 2015, 2016, and 2019, showcasing his remarkable consistency and dominance in the world of tennis.

S121. Ans. (d)

Sol. The correct answer is **(d) A-D, C-F**.

Here's why:

1. **Commencement** (प्रारंभ): It means the beginning or start of something.

- **Hindi:** प्रारंभ
- **English:** The act of starting something.

Initiation (आरंभ): This also means the beginning of something.

- **Hindi:** आरंभ
- **English:** The starting point of an action or process.

Thus, **A-D** is a synonym pair.

2. **Migration** (प्रवासन): It refers to the movement of people or animals from one place to another.

- **Hindi:** प्रवासन
- **English:** The process of moving from one region or place to another.

Relocation (पुनर्स्थापन): This also refers to moving or being moved to a new place.

- **Hindi:** पुनर्स्थापन
- **English:** The act of moving to a different location.

Thus, **C-F** is a synonym pair.

Explanation of other options:

- **Regime** (शासन): This means a government or a system of rule, often authoritarian.
 - **Hindi:** शासन
 - **English:** A government or system of control, especially an authoritarian one.
- **Differential** (अंतर): This refers to a difference or variation.
 - **Hindi:** अंतर
 - **English:** A distinction or difference between things.

Since the correct synonym combinations are **A-D** and **C-F**, the correct answer is **(d) A-D, C-F**.

S122. Ans. (e)

Sol. The word "**twisted**" means bent, distorted, or contorted, either physically or figuratively. It can refer to something literally twisted (like an ankle or an object) or metaphorically (like a plot that is complicated or unexpected).

In Hindi, "**twisted**" means मरोड़ा हुआ or टेढ़ा.

Now, let's analyze the sentences:

(I) **Incorrect:** The phrase "twisted the audience" is not appropriate. Instead of "twisted," words like "moved" or "touched" would better express the emotional impact on the audience.

(II) **Correct:** "She twisted her ankle" is a proper use of the word to describe an injury caused by a physical twisting motion.

(III) **Correct:** "The plot of the novel took a twisted turn" is correct in the figurative sense, meaning the plot became complex or took an unexpected direction.

Correct answer:

(e) Both (II) and (III).

S123. Ans. (d)

Sol. The word "**incursion**" means a sudden or brief invasion or attack, often referring to an aggressive entry into a place. It can be used both literally (as in military or physical invasions) and figuratively (as in competition or interference).

In Hindi, "**incursion**" means **अतिक्रमण** or **आक्रमण**.

Now, let's analyze the sentences:

(I) **Correct:** "The sudden incursion of enemy forces" is an appropriate use, referring to a surprise military invasion.

(II) **Correct:** "The company faced an incursion of new competitors" is correct, using "incursion" metaphorically to describe the entry of competitors into the market.

(III) **Correct:** "The incursion of illegal loggers" is also appropriate, referring to the illegal entry of loggers into the wildlife sanctuary.

Correct answer:

(d) All are correct.

S124. Ans. (d)

Sol. The correct answer is **(d) B-E, C-D**.

Here's why, along with the meanings of the words:

Column I:

- Explicit (स्पष्ट):** Something that is clearly stated and leaves no room for confusion or doubt.
 - Hindi:** स्पष्ट
 - English:** Clear, direct, and detailed.
- Abrogation (रद्द करना):** The formal cancellation or abolishment of a law, agreement, or practice.
 - Hindi:** रद्द करना
 - English:** The act of officially ending or nullifying something.
- Avenue (मार्ग):** A way of achieving something or a means to an end.
 - Hindi:** मार्ग
 - English:** A path or means of access to achieve something.

Column II:

- Barrier (अवरोध):** Something that blocks or obstructs progress or movement.
 - Hindi:** अवरोध
 - English:** An obstacle or hindrance.
- Endorsement (अनुमोदन):** An act of giving approval or support to something or someone.
 - Hindi:** अनुमोदन
 - English:** A sign of approval, support, or backing.
- Civil (सभ्य):** Polite and respectful in behavior, or relating to citizens and their concerns.
 - Hindi:** सभ्य या नागरिकों से संबंधित
 - English:** Polite, or relating to citizens and societal concerns.

Explanation of the correct combinations:

4. **B-E (Abrogation - Endorsement):** **Abrogation** refers to the cancellation of laws or practices, while **endorsement** refers to an act of giving approval or support to something or someone. These are natural opposites.
 - **C-D (Avenue - Barrier):** An **avenue** is a path or way forward, while a **barrier** blocks the way. These are natural opposites.
- Thus, **(d) B-E, C-D** is the correct answer.

S125. Ans. (b)

Sol. The correct answer is **(b) A-E, B-F**.

Here's the explanation along with the meanings of the words:

Column I:

1. **Allegedly** (कथित रूप से): Used to convey something that is claimed to be the case, especially without proof.
 - **Hindi:** कथित रूप से
 - **English:** Supposedly or reportedly, without certainty.
2. **Supersede** (प्रत्याहार करना): To take the place of (something previously in use) or to replace in authority.
 - **Hindi:** प्रतिस्थापित करना
 - **English:** To replace or take over from.
3. **Espionage** (जासूसी): The act of spying or using spies to gather information, especially for political or military purposes.
 - **Hindi:** जासूसी
 - **English:** The act of spying, especially to gain secrets from another government or organization.

Column II:

1. **Spying** (जासूसी): The act of secretly collecting information, usually about a foreign country or competitor.
 - **Hindi:** जासूसी
 - **English:** The activity of secretly collecting and reporting information.
2. **Definitely** (निश्चित रूप से): Without any doubt; for sure.
 - **Hindi:** निश्चित रूप से
 - **English:** For sure; without any uncertainty.
3. **Uphold** (समर्थन करना): To maintain or support something, such as a law, decision, or principle.
 - **Hindi:** समर्थन करना
 - **English:** To support or maintain.

Explanation:

- **A-E (Allegedly - Definitely):** **Allegedly** means something is uncertain or claimed without proof, while **Definitely** means something is certain and without doubt. These are direct antonyms.
- **B-F (Supersede - Uphold):** **Supersede** means to replace or take over from something, while **Uphold** means to maintain or support it. These are antonyms in the sense that one replaces, while the other maintains.

Thus, **(b) A-E, B-F** is the correct answer.

S126. Ans. (b)

Sol. Correct Sequence: B - A - D - C - E

1. **B:** This sentence introduces the key concept of the paragraph – the definition of "zeitgeist" as the cultural, intellectual, and moral climate of a particular era. This serves as the best starting point.

2. **A:** Following the definition, **A** elaborates on what the zeitgeist reflects – a collective identity shaped by technology, changing values, and heightened social awareness. This builds on the idea introduced in **B**.
3. **D:** This sentence logically follows by explaining that the collective consciousness undergoes transformation as new ideas and trends emerge, deepening the reader's understanding of how the zeitgeist evolves over time.
4. **C:** After describing the nature of transformation, **C** introduces specific contemporary concerns – sustainability, inclusivity, and digitization – as the focal points of the modern zeitgeist.
5. **E:** Finally, **E** serves as the conclusion, emphasizing why understanding the zeitgeist is crucial for grasping the motivations behind societal behavior in any given era.

S127. Ans. (a)

Sol. Correct Sequence: B - A - D - C - E

1. **B:** This sentence introduces the key concept of the paragraph – the definition of "zeitgeist" as the cultural, intellectual, and moral climate of a particular era. This serves as the best starting point.
2. **A:** Following the definition, **A** elaborates on what the zeitgeist reflects – a collective identity shaped by technology, changing values, and heightened social awareness. This builds on the idea introduced in **B**.
3. **D:** This sentence logically follows by explaining that the collective consciousness undergoes transformation as new ideas and trends emerge, deepening the reader's understanding of how the zeitgeist evolves over time.
4. **C:** After describing the nature of transformation, **C** introduces specific contemporary concerns – sustainability, inclusivity, and digitization – as the focal points of the modern zeitgeist.
5. **E:** Finally, **E** serves as the conclusion, emphasizing why understanding the zeitgeist is crucial for grasping the motivations behind societal behavior in any given era.

S128. Ans. (c)

Sol. Correct Sequence: B - A - D - C - E

1. **B:** This sentence introduces the key concept of the paragraph – the definition of "zeitgeist" as the cultural, intellectual, and moral climate of a particular era. This serves as the best starting point.
2. **A:** Following the definition, **A** elaborates on what the zeitgeist reflects – a collective identity shaped by technology, changing values, and heightened social awareness. This builds on the idea introduced in **B**.
3. **D:** This sentence logically follows by explaining that the collective consciousness undergoes transformation as new ideas and trends emerge, deepening the reader's understanding of how the zeitgeist evolves over time.
4. **C:** After describing the nature of transformation, **C** introduces specific contemporary concerns – sustainability, inclusivity, and digitization – as the focal points of the modern zeitgeist.
5. **E:** Finally, **E** serves as the conclusion, emphasizing why understanding the zeitgeist is crucial for grasping the motivations behind societal behavior in any given era.

S129. Ans. (d)

Sol. Correct Sequence: B - A - D - C - E

1. **B:** This sentence introduces the key concept of the paragraph – the definition of "zeitgeist" as the cultural, intellectual, and moral climate of a particular era. This serves as the best starting point.
2. **A:** Following the definition, **A** elaborates on what the zeitgeist reflects – a collective identity shaped by technology, changing values, and heightened social awareness. This builds on the idea introduced in **B**.
3. **D:** This sentence logically follows by explaining that the collective consciousness undergoes transformation as new ideas and trends emerge, deepening the reader's understanding of how the zeitgeist evolves over time.

4. **C:** After describing the nature of transformation, **C** introduces specific contemporary concerns – sustainability, inclusivity, and digitization – as the focal points of the modern zeitgeist.
5. **E:** Finally, **E** serves as the conclusion, emphasizing why understanding the zeitgeist is crucial for grasping the motivations behind societal behavior in any given era.

S130. Ans. (c)

Sol. Correct Sequence: B - A - D - C - E

1. **B:** This sentence introduces the key concept of the paragraph – the definition of "zeitgeist" as the cultural, intellectual, and moral climate of a particular era. This serves as the best starting point.
2. **A:** Following the definition, **A** elaborates on what the zeitgeist reflects – a collective identity shaped by technology, changing values, and heightened social awareness. This builds on the idea introduced in **B**.
3. **D:** This sentence logically follows by explaining that the collective consciousness undergoes transformation as new ideas and trends emerge, deepening the reader's understanding of how the zeitgeist evolves over time.
4. **C:** After describing the nature of transformation, **C** introduces specific contemporary concerns – sustainability, inclusivity, and digitization – as the focal points of the modern zeitgeist.
5. **E:** Finally, **E** serves as the conclusion, emphasizing why understanding the zeitgeist is crucial for grasping the motivations behind societal behavior in any given era.

S131. Ans. (a)

So. Correct Answer: (a) A

Explanation:

The error lies in **part A** due to the improper use of the correlative conjunction "both...as well as."

Grammatical Rule:

When using **correlative conjunctions** like "both...and," the **correct pair** should be "**both A and B.**" Using "both A as well as B" is **incorrect** because it disrupts the parallel structure required for clarity.

Correct Structure:

- "**Both A and B**" ensures that the sentence maintains proper parallelism.

Corrected Sentence:

- "Both the students **and** the teacher were excited about the upcoming science fair, eagerly preparing their exhibits and presentations."

Thus, the correct sentence follows this rule, and the **error lies in part A** because the correct pair should be "both...and."

S132. Ans. (b)

Sol. Correct Answer: (b) B

Explanation:

The error lies in **part B** due to the incorrect use of the verb "**examine**" after the phrase "**looking forward to.**"

Grammatical Rule:

- "Look forward to" is a phrasal verb where the word "to" functions as a **preposition**.
- When a verb follows a preposition like "to," it must be in the **gerund form** (i.e., the -ing form).

Correct Structure:

- "I am looking forward to **examining...**" is the correct structure.

Corrected Sentence:

- "I am looking forward to examining the results of the research study in detail next week to explore potential improvements and applications."

Thus, the correct sentence follows the rule, and the **error lies in part B** because the verb should be "**examining**" instead of "**examine.**"

S133. Ans. (c)

Sol. Correct Answer: (c) C

Explanation:

The error lies in **part C** due to the incorrect use of the phrase "**had we been**" in the given context.

Grammatical Rule:

- The phrase "**had we been**" suggests a **conditional or hypothetical past perfect continuous** scenario, which is not appropriate here.
- Instead, since the sentence refers to **data analyzed during the course** (an action already completed or ongoing in the past), the correct form should be "**we had been analyzing.**"

Correct Structure:

- "**related to the data we had been analyzing...**" follows the correct past perfect continuous tense.

Corrected Sentence:

- "The professor provided new insights into the complex theories related to the data **we had** been analyzing in the last part of the course."

Thus, the **error lies in part C** because the correct order is "**we had been analyzing,**" not "**had we been analyzing.**"

S134. Ans. (b)

Sol. Correct Answer: (b) B

Explanation:

The error lies in **part B** due to the incorrect use of the pronoun "**it.**"

Grammatical Rule:

- When referring to a **plural noun** like "**manuscripts,**" the correct pronoun to use is "**them,**" not "**it.**"
- "**It**" is a singular pronoun, which creates a disagreement with the plural subject "**manuscripts.**"

Correct Structure:

- "but many of them" should be used to refer to the plural noun "manuscripts."

Corrected Sentence:

- "The library had a vast collection of ancient manuscripts, but many of **them** were in need of restoration due to damage from age and neglect."

Thus, the **error lies in part B** because "it" should be replaced with "**them**" to ensure pronoun-antecedent agreement.

S135. Ans. (c)

Sol. Correct Answer: (c) C

Explanation:

The error lies in **part C** due to the incorrect use of the verb "**does**."

Grammatical Rule:

- The phrase "**as slowly as it does**" implies that the comparison is being made with an ongoing or repeated event. However, the sentence refers to a **past event (the economic recovery)**.
- In this context, the correct auxiliary verb should be "**did**" to match the past tense.

Correct Structure:

- "as slowly as it **did**" should replace "as slowly as it does."

Corrected Sentence:

- "The recovery from the economic downturn happened as slowly as it **did** due to insufficient government intervention and delayed policy reforms."

Thus, the **error lies in part C** because "**does**" should be replaced with "**did**" to maintain proper tense consistency.

S136. Ans. (e)

Sol. The correct word for blank (A) is **(e) surges**.

Here's why:

- **Surges** (तेजी से बढ़ना): In this context, inflation **surges** (rises sharply or suddenly) is the most appropriate word because the passage describes a situation where inflation has increased significantly, driven by rising food and fuel prices. "Surges" correctly conveys this rapid increase in inflation, fitting the sentence context.

Explanation for why the other options are incorrect:

- **Crises** (संकट): This means situations of severe difficulty or instability. While inflation could lead to a crisis, the sentence needs a word describing the action of inflation rising, not the result of it. "Crises" doesn't fit the context.
- **Biases** (पक्षपात): This means inclinations or prejudices for or against something. It's not relevant in this context, as inflation rising has nothing to do with personal biases.
- **Rectifies** (सुधारना): This means to correct or fix something. It doesn't make sense in the context of inflation rising because inflation doesn't correct anything; it worsens the situation.

- **Traces** (निशान): This means small amounts or indications of something. It doesn't fit because the passage talks about inflation increasing significantly, not just showing small signs.

Thus, **surges** is the most appropriate choice for blank (A).

S137. Ans. (b)

Sol. The correct word for blank (B) is **(b) advocating**.

Here's why:

- **Advocating** (प्रवक्तावादी होना): This means to publicly support or recommend a particular cause or policy. In this context, industry bodies are advocating (supporting) lower borrowing costs to boost investment and demand. This word fits perfectly because it captures the idea that industry bodies are pushing for or requesting lower interest rates.

Explanation for why the other options are incorrect:

- **Cumulating** (संचय करना): This means to gather or accumulate. It doesn't fit here, as the industry bodies are not accumulating anything but rather seeking or supporting a specific change.
- **Innovating** (नवप्रवर्तन करना): This means to introduce something new or make changes through innovation. Industry bodies are not introducing new ideas or innovations but are advocating for a policy change.
- **Activating** (सक्रिय करना): This means to make something active or operational. It doesn't fit the context because industry bodies are not "activating" anything but are advocating for lower borrowing costs.
- **Regranting** (फिर से अनुदान देना): This means to grant something again. This word is irrelevant here because the sentence is about lobbying for lower interest rates, not reissuing grants or permissions.

Thus, **advocating** is the most appropriate choice for blank (B).

S138. Ans. (d)

Sol. The correct word for blank (C) is **(d) prevent**.

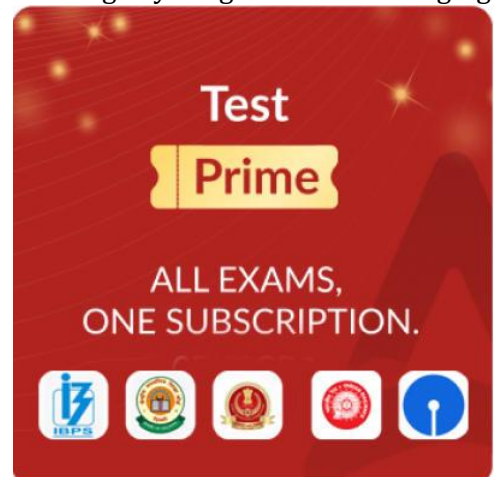
Here's why:

- **Prevent** (रोकना): The sentence discusses the central bank's intention to delay rate cuts in order to avoid further inflationary pressures. The word "prevent" fits perfectly because it indicates that the central bank wants to **stop** or **avoid** inflation from increasing even more.

Explanation for why the other options are incorrect:

- **Shake** (हिलाना): This word is irrelevant here, as the sentence is not about shaking anything but about managing inflationary pressures.
- **Prior** (पहले): This word is used to indicate something that comes before another in time or order. It doesn't fit here, as the context is about preventing inflationary pressures, not about timing.
- **Advance** (आगे बढ़ाना): This means to move forward or promote something. In the context of inflation, the central bank doesn't want to "advance" inflationary pressures, so this word doesn't fit.
- **Lenient** (नरम): This means to be more forgiving or relaxed. It doesn't work in this context because the central bank is not being lenient about inflation; it's trying to **prevent** its rise.

Thus, **prevent** is the most appropriate choice for blank (C).



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S139. Ans. (c)

Sol. The correct word for blank (D) is **(c) complexity**.

Here's why:

- **Complexity** (जटिलता): The passage talks about global uncertainties, including volatile oil prices and geopolitical tensions, which make decision-making more difficult and intricate. The word "complexity" is the best fit because it captures the idea that these uncertainties add layers of difficulty to the decision-making process.

Explanation for why the other options are incorrect:

- **Meliority** (श्रेष्ठता): This is an uncommon word meaning improvement or betterment. It does not fit the context, as the passage is discussing difficulties, not improvements.
- **Proximity** (निकटता): This refers to closeness in space or time. It doesn't make sense in this context because the passage is about complications in decision-making, not about physical or temporal closeness.
- **Verbosity** (शब्दाडंबर): This refers to the use of too many words or being overly wordy. It is irrelevant here, as the passage is not about language or speech.
- **Austerity** (कठोरता): This refers to strictness or severe measures, often related to economic policies. While the passage does mention monetary policy, "austerity" does not fit because it is talking about uncertainties adding to the difficulty of decision-making, not about strict economic measures.

Thus, **complexity** is the most appropriate choice for blank (D).

S140. Ans. (a)

Sol. The correct word for blank (E) is **(a) posing**.

Here's why:

- **Posing** (पेश करना): This word means presenting or creating a challenge, which fits the context of the passage. The passage describes the trade-off between economic recovery and inflation control as creating a challenge for India's monetary policy framework. "Posing" accurately conveys this idea.

Explanation for why the other options are incorrect:

- **Caving** (झुकना): This means giving in or yielding under pressure. It does not fit the context because the sentence is about a challenge being created, not about giving in.
- **Aiding** (सहायता करना): This means helping or assisting. In this case, the passage is discussing a challenge, not assistance, so "aiding" does not fit.
- **Having** (रखना): This is too vague and does not fit well with the context, as the sentence is about a specific challenge being posed, not about possession.
- **Ruling** (शासन करना): This means controlling or governing, which does not fit the context of a challenge being presented for monetary policy.

Thus, **posing** is the most appropriate choice for blank (E).

S141. Ans. (b)

Sol. The erroneous word in the sentence is **(b) indeliable**.

The correct spelling should be **indelible**.

Here are the meanings of the words:

1. **Disgrace** (अपमान): The loss of respect, honor, or esteem, often due to an action or behavior that is considered shameful.
 - **Hindi:** अपमान या बदनामी
 - **English:** Loss of reputation or respect.

2. **Indelible** (अमिट): Refers to something that cannot be erased or removed, often used metaphorically to describe something lasting or permanent, like an impression or a memory.
 - **Hindi:** अमिट (जिसे मिटाया नहीं जा सकता)
 - **English:** Permanent, cannot be removed.
3. **Reputation** (प्रतिष्ठा): The beliefs or opinions that are generally held about someone or something.
 - **Hindi:** प्रतिष्ठा, मान-सम्मान
 - **English:** The general perception or belief about someone's character or standing.
4. **Probably** (शायद): Used to express that something is likely to happen or be true.
 - **Hindi:** शायद
 - **English:** Likely or most likely.

Since the correct spelling is "indelible," the correct answer is **(b) indelible**.

S142. Ans. (d)

Sol. The erroneous word in the sentence is **(d) seranade**.

The correct spelling should be **serenade**.

Here are the meanings of the words:

1. **Brings** (लाना): To carry, convey, or take something or someone to a particular place or person.
 - **Hindi:** लाना
 - **English:** To deliver or take something to someone.
2. **Birthday** (जन्मदिन): The anniversary of the day on which a person was born.
 - **Hindi:** जन्मदिन
 - **English:** The day of birth of a person.
3. **Waitress** (महिला वेटर): A woman whose job is to serve customers at their tables in a restaurant.
 - **Hindi:** महिला वेटर
 - **English:** A female server in a restaurant.
4. **Serenade** (प्रेमगीत गाना): To sing or play music in honor of someone, often done as a gesture of love or admiration.
 - **Hindi:** प्रेमगीत गाना
 - **English:** To perform a piece of music or song for someone, often in a romantic context.

Since the correct spelling is "serenade," the correct answer is **(d) seranade**.

S143. Ans. (c)

Sol. The erroneous word in the sentence is **(c) sinuous**.

The correct spelling should be **sinuous**.

Here are the meanings of the words:

1. **Winds** (घुमाव लेना): Refers to something that twists or turns in a curving path.
 - **Hindi:** घुमाव लेना
 - **English:** To follow a curving or twisting course.
2. **Mountain** (पहाड़): A large natural elevation of the earth's surface, rising significantly above the surrounding land.
 - **Hindi:** पहाड़
 - **English:** A large and steep hill, typically with a peak.
3. **Sinuous** (टेढ़ा-मेढ़ा): Having many curves and turns, often used to describe winding paths or roads.
 - **Hindi:** घुमावदार
 - **English:** Having many bends or turns.

4. **Treasure** (खजाना): A collection of valuable items such as gold, silver, jewels, etc.

- **Hindi:** खजाना
- **English:** A collection of valuable objects.

Since the correct spelling is "sinuous," the correct answer is **(c) sinuous**.

S144. Ans. (b)

Sol. The erroneous word in the sentence is **(b) expletive**.

The correct spelling should be **expletive**.

Here are the meanings of the words:

1. **Uttered** (उच्चारित करना): To speak or express something aloud.
 - **Hindi:** उच्चारित करना
 - **English:** To say or speak something.
2. **Expletive** (शाप या अपशब्द): A word or phrase, often a curse word, used to express strong emotion.
 - **Hindi:** अपशब्द या शाप
 - **English:** A swear word or a profane expression.
3. **Received** (प्राप्त किया): To be given or presented with something.
 - **Hindi:** प्राप्त किया
 - **English:** To get or be given something.
4. **Important** (महत्वपूर्ण): Having great significance or value.
 - **Hindi:** महत्वपूर्ण
 - **English:** Of great significance or worth.

Since the correct spelling is "expletive," the correct answer is **(b) expletive**.

S145. Ans. (d)

Sol. The erroneous word in the sentence is **(d) acquaintance**.

The correct spelling should be **acquaintance**.

Here are the meanings of the words:

1. **Alliance** (संधि, गठबंधन): A union or association formed for mutual benefit, especially between countries or organizations.
 - **Hindi:** गठबंधन या संधि
 - **English:** A formal agreement or bond between parties for mutual benefit.
2. **Tenuous** (कमजोर, अस्थिर): Very weak or slight; lacking a strong basis.
 - **Hindi:** कमजोर या अस्थिर
 - **English:** Weak or slight, not firmly established.
3. **Fidelity** (निष्ठा, वफादारी): Faithfulness to a person, cause, or belief, demonstrated by continuing loyalty and support.
 - **Hindi:** निष्ठा या वफादारी
 - **English:** Loyalty or faithfulness to a person or cause.
4. **Acquaintance** (परिचय): A person one knows slightly, but who is not a close friend.
 - **Hindi:** परिचय
 - **English:** Someone you know, but not very well.

Since the correct spelling is "acquaintance," the correct answer is **(d) acquaintance**.

S146. Ans. (d)

Sol. The highlighted word in the passage is "grueling," which refers to something extremely tiring or demanding. Let's go through each option, providing the meaning in both Hindi and English to see which one fits best.

Option (a) "beheading"

- **Meaning (English):** The act of cutting off someone's head.
- **Meaning (Hindi):** सिर काटने की प्रक्रिया।
- **Explanation:** This meaning is irrelevant in the context of the passage, as "beheading" does not relate to exhaustion or difficulty. Therefore, this option is **incorrect**.

Option (b) "derationing"

- **Meaning (English):** Removing restrictions or limits on the supply of something.
- **Meaning (Hindi):** किसी वस्तु की आपूर्ति पर लगे प्रतिबंधों को हटाना।
- **Explanation:** This word doesn't fit the context of the passage. The passage is talking about work pressure and stress, not about lifting supply restrictions. Therefore, this option is **incorrect**.

Option (c) "awaiting"

- **Meaning (English):** To wait for something to happen.
- **Meaning (Hindi):** किसी चीज़ के होने का इंतज़ार करना।
- **Explanation:** This word suggests waiting, which doesn't align with the idea of something being very demanding or exhausting. Therefore, this option is **incorrect**.

Option (d) "challenging"

- **Meaning (English):** Something that is difficult and requires effort.
- **Meaning (Hindi):** ऐसा कुछ जो कठिन हो और प्रयास की आवश्यकता हो।
- **Explanation:** This word closely matches the meaning of "grueling," which describes something extremely demanding and difficult. Therefore, this option is **correct**.

Option (e) "piling"

- **Meaning (English):** The act of stacking or accumulating things.
- **Meaning (Hindi):** चीज़ों का ढेर लगाना या जमा करना।
- **Explanation:** This word refers to accumulation rather than something being exhausting or demanding. Therefore, this option is **incorrect**.

Correct answer: (d) challenging.

In summary, "challenging" is the most appropriate synonym for "grueling" because it captures the idea of something being difficult and requiring a lot of effort.

S147. Ans. (b)

Sol. The correct answer is **(b) Both (I) and (II)**.

Explanation:

(I) Ravi finds it difficult to manage the increasing pressure due to the unending client revisions and continuous project demands in his role as a software developer.

- **Supporting Line:** Ravi states, "It's not just about writing code anymore. It's the constant updates, client revisions, and meetings that pile up." This clearly indicates that Ravi is struggling to manage the pressures from client revisions and project demands.

(II) Ankit, who manages projects, believes that balancing client expectations and motivating his team is like managing an unpredictable situation, with obstacles constantly arising.

- **Supporting Line:** Ankit says, "Managing client expectations while trying to keep the team motivated is like walking a tightrope. Just when you think you've got everything under control, something pops up and throws a wrench in the works." This shows that Ankit feels his role involves managing unpredictable challenges.

(III) Both Ravi and Ankit agree that their work demands leave them little room for relaxation, and they've given up on trying to find any work-life balance, focusing entirely on their professional responsibilities.

- **Supporting Line:** While they discuss the pressures of work, the passage does not state that they have given up on finding work-life balance. In fact, both mention their hobbies (hiking and photography) as means of relaxation and managing stress, which implies they are actively seeking balance rather than giving up. Therefore, this statement is **not accurate**.

Conclusion:

Thus, the accurate statements are (I) and (II), making (b) Both (I) and (II) the correct answer.

S148. Ans. (e)

Sol. The most appropriate word to fill the blank in the passage is (e) **accomplish**.

Explanation:

1. (a) **accelerate**
 - **Meaning in English:** To increase in speed.
 - **Meaning in Hindi:** तेजी लाना
 - **Why Incorrect:** The context of the sentence is about completing tasks, not increasing speed.
2. (b) **acclaim**
 - **Meaning in English:** To praise enthusiastically and publicly.
 - **Meaning in Hindi:** प्रशंसा करना
 - **Why Incorrect:** This word does not fit the context of completing tasks or responsibilities.
3. (c) **venerate**
 - **Meaning in English:** To regard with great respect.
 - **Meaning in Hindi:** श्रद्धा करना
 - **Why Incorrect:** This word pertains to respect and admiration, which does not relate to the task completion theme in the sentence.
4. (d) **admire**
 - **Meaning in English:** To regard with respect or warm approval.
 - **Meaning in Hindi:** प्रशंसा करना
 - **Why Incorrect:** Similar to "acclaim," this word does not convey the idea of achieving or completing something.
5. (e) **accomplish**
 - **Meaning in English:** To achieve or complete successfully.
 - **Meaning in Hindi:** पूरा करना
 - **Why Correct:** This fits perfectly in the context of the passage, as Ravi is expressing the feeling that no matter how much he accomplishes, there is always more work to do.

Conclusion:

Thus, the correct choice is (e) **accomplish** as it aligns with the idea of finishing tasks amid ongoing pressures at work.

S149. Ans. (c)

Sol. The correct answer is (c) **He alleviates work-related stress by engaging in outdoor activities and minimizing ongoing work communication.**

Explanation:

- In the passage, Ankit mentions:
 - "I make it a point to disconnect completely when I get a chance. I've taken up hiking again. Whenever I have some free time, I head to the hills. Being out in nature, far away from the constant pings of work emails, is like hitting the reset button."

This indicates that he prioritizes taking breaks from work to reduce stress. His choice to go hiking and be away from work emails suggests that he engages in outdoor activities to alleviate work-related pressure.

Why Other Options are Incorrect:

- (a) He likes to distance himself from friends and colleagues when he feels frustrated with his job.
 - Why Incorrect:** This option suggests distancing from friends, which is not mentioned in the passage. Ankit focuses on nature and disconnecting from work rather than from friends.
- (b) He often hikes in the hills to contemplate work challenges and develop new strategies.
 - Why Incorrect:** Although he hikes, the passage emphasizes relaxation and disconnecting from work rather than strategizing about work challenges.
- (d) He prefers to work remotely from the hills to stay productive while enjoying the natural surroundings.
 - Why Incorrect:** The passage indicates that he disconnects from work entirely, rather than working remotely while enjoying nature.
- (e) He views nature trips as a break from his duties, even though he continues to check his work emails.
 - Why Incorrect:** Ankit emphasizes disconnecting completely from work, indicating that he does not check work emails while enjoying his nature trips.

In summary, Ankit's statement about disconnecting points towards engaging in outdoor activities to alleviate stress and minimize work communication, aligning best with option (c).

S150. Ans. (a)

Sol. The correct answer is (a) **They are dealing with endless work that seems repetitive and unproductive, despite their efforts.**

Explanation:

In the context of the passage, Rohit's use of the idiom "chasing our own tails" suggests that they feel caught in a cycle of work that feels unproductive and repetitive. This idiom typically implies that, despite their efforts, they are not making any real progress—it's as if they are running in circles without achieving their goals.

Why Other Options are Incorrect:

- (b) They feel like they are struggling to balance both their personal and professional responsibilities.
 - Why Incorrect:** This option emphasizes a struggle for balance rather than the unproductive nature of their work, which is the core meaning of the idiom.
- (c) They constantly solve new problems, but each success leads to increased responsibility, making them feel empowered.
 - Why Incorrect:** This interpretation suggests a positive outcome from their efforts, whereas "chasing our own tails" indicates frustration and a lack of real progress.
- (d) They are frequently moving between different projects without fully completing any of them.
 - Why Incorrect:** While this might imply a lack of completion, the idiom specifically highlights the repetitiveness and unproductiveness of their work rather than merely moving between tasks.
- (e) They are always ahead of their deadlines, but are given new tasks due to their efficiency.
 - Why Incorrect:** This option suggests that they are performing well and being rewarded with more work, which contradicts the sense of futility implied by "chasing our own tails."

In summary, Rohit's use of the idiom emphasizes their feeling of being caught in a cycle of endless and unproductive work, making **(a)** the best choice.

S151. Ans. (e)

Sol. The best option to replace "less" in the sentence is **(e) least**.

Explanation:

- **Correct Option: (e) least**
 - **Meaning:** "Least" means the smallest in amount, degree, or significance. In this context, it conveys that despite the pressures at work, they have found "small pockets of joy," which is a positive aspect. The phrase "at least" is commonly used to indicate a positive point in a negative situation.
 - **Usage in Sentence:** "While the pressures at work weren't going anywhere, at **least** they had found small pockets of joy to help them weather the storm."

Why Other Options are Incorrect:

- **(a) verst**
 - **Meaning:** "Verst" is an old Russian unit of distance. It is irrelevant in this context.
 - **Usage in Sentence:** It does not fit grammatically or contextually.
- **(b) wrest**
 - **Meaning:** "Wrest" means to forcibly pull something from a person's grasp. It is not relevant to the context of finding joy.
 - **Usage in Sentence:** This word does not fit the intended meaning of the sentence.
- **(c) exist**
 - **Meaning:** "Exist" means to have actual being; to live. While it could grammatically fit, it does not convey the intended meaning.
 - **Usage in Sentence:** "At exist" does not make sense in the context.
- **(d) first**
 - **Meaning:** "First" denotes the initial in order or rank. This does not relate to the context of finding joy amidst pressures.
 - **Usage in Sentence:** "At first" implies a sequence and doesn't convey the intended relief or positivity.

In summary, **(e) least** is the only option that maintains the intended meaning and fits grammatically within the sentence.

S152. Ans. (e)

Sol. Analysis of Statements:

- **(I) Ravi's chuckle, despite being filled with exhaustion, implied his acceptance of the ongoing situation.**
 - **Analysis:** This statement is **true**. Ravi's chuckle, described as having a hint of exhaustion, implies that he acknowledges the overwhelming nature of their work. The passage states, "**Ravi chuckled, though there was a hint of exhaustion behind it,**" indicating that he accepts the situation.
- **(II) Both friends recognized that pursuing hobbies outside of work was essential for rejuvenation.**
 - **Analysis:** This statement is **true** as well. Both Ravi and Ankit discuss their hobbies (hiking and photography) as important for recharging and managing stress. Ankit states, "**that's why I make it a point to disconnect completely,**" and Ravi mentions that photography is a relief from work.
- **(III) The discussion swiftly shifted to the stresses of their hectic work schedules.**
 - **Analysis:** This statement is **true**. The passage begins with the friends discussing the pressures of their work and transitions to how they cope with those pressures. The line "**the topic inevitably turned to their jobs and the relentless pace they had been keeping up with**" confirms that their discussion focused on work-related stresses.

Conclusion:

Since all statements (I), (II), and (III) are true:

Correct Answer: (e) All statements are true.

S153. Ans. (c)

Sol. The best answer for what realization Ravi and Ankit came to during their conversation is:

(c) Having interests outside of work was essential for their emotional well-being and offered much-needed relief from the pressures of their IT jobs.

Explanation:

- **Lines from the Passage:** The passage states, "As they continued to chat, the two friends realized how essential it was to have something outside of work to help them recharge. Their hobbies had become a vital part of keeping them sane, offering an escape from the constant grind of their IT careers."

The other options are incorrect for the following reasons:

- **(a)** Their hobbies were distracting them from meeting work deadlines, adding to their stress levels.
 - This is incorrect because the passage does not indicate that their hobbies were distracting or adding stress; instead, it suggests they help relieve stress.
- **(b)** Photography and hiking were merely temporary distractions, with no lasting impact on their mental health.
 - This is incorrect because the passage implies that these activities provide significant relief and positively impact their emotional well-being.
- **(d)** The constant grind of their IT careers has provided them ample time to engage in hobbies and leisure activities.
 - This is incorrect as the passage indicates that their demanding jobs limit their time for hobbies.
- **(e)** Their creative pursuits had no real effect on helping them recharge or escape the pressures of their work life.
 - This is incorrect because the passage explicitly states that their hobbies are vital for recharging and escaping work pressures.

S154. Ans. (d)

Sol. The correct answer is:

(d) The speaker had anticipated a lighter workload but ended up receiving more tasks than expected.

Explanation:

- **Lines from the Passage:** In the passage, Ravi says, "I thought I'd have a little breathing room this week, but guess what? Another project landed on my desk this morning." This indicates that he expected to have some relief in his workload (breathing room) but was surprised to find that he received another project, which implies an increase in his workload instead.

The other options are incorrect for the following reasons:

- **(a)** The speaker's workload was reduced, giving them ample time to engage in other activities outside work.
 - This is incorrect because the speaker anticipated a lighter workload but ended up with more tasks, not less.
- **(b)** The speaker managed to complete their work on time, enjoying a brief period of rest afterward.
 - This is incorrect because there is no indication in the passage that the speaker completed their work on time or enjoyed a rest.
- **(c)** The speaker's week went according to plan, allowing them to focus on hobbies and leisure.
 - This is incorrect as the speaker expected a lighter workload but received more tasks, which does not align with a week going according to plan.
- **(e)** The speaker had expected a challenging week but found it surprisingly easy due to fewer tasks than usual.
 - This is incorrect because the speaker expected a lighter workload, not a challenging week, and actually ended up with more tasks than expected.

S155. Ans. (b)

Sol. The correct answer is:

(b) To accumulate tasks, updates, and meetings to the point where they become overwhelming.

Explanation:

- **Context in the Passage:** In the passage, Ravi expresses his frustration about "the constant updates, client revisions, and meetings that pile up." This indicates that he is feeling overwhelmed by the increasing amount of work and responsibilities that are accumulating.

The other options are incorrect for the following reasons:

- **(a)** To reduce the amount of work over time and gradually complete tasks.
 - This is incorrect because "pile up" refers to an increase in workload, not a reduction.
- **(c)** To organize work in a structured manner, ensuring smooth completion.
 - This is incorrect as "pile up" implies disorder and overwhelm, rather than organization.
- **(d)** To delegate tasks to others, causing the workload to decrease significantly.
 - This is incorrect because "pile up" does not involve delegation; rather, it refers to an accumulation of work.
- **(e)** To work on tasks in a relaxed manner, ensuring no work remains by the end of the week.
 - This is incorrect since "pile up" suggests a growing workload, not a relaxed approach to completing tasks.

S156. Ans. (c)

Sol. The most appropriate phrase to fill in the blank is **(c) Its impact on reducing air pollution is another key benefit of adopting renewable energy.**

This option fits perfectly because it maintains the paragraph's focus on the positive environmental impact of renewable energy, specifically linking it to carbon emissions reduction and adding another key benefit—reducing air pollution. The sentence complements the previous statement about reducing carbon emissions and leads naturally into the discussion of continuing trends and investments in renewable energy.

Other options:

- (a) shifts the focus to wind turbines, which is too specific and unrelated to the overall environmental benefits being discussed.
- (b) introduces a negative tone that doesn't align with the overall positive outlook presented in the paragraph.
- (d) mentions financial hesitation, which deviates from the focus on the environmental and technological aspects of renewable energy adoption.

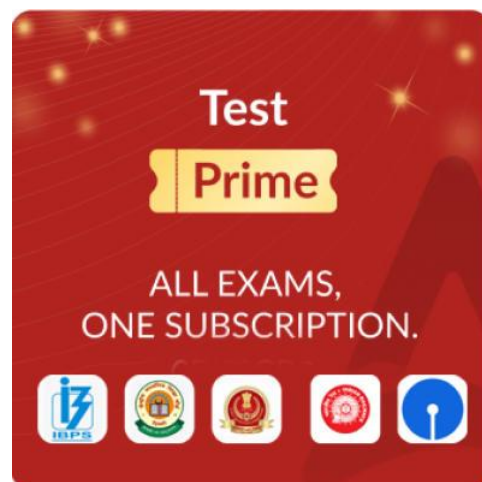
S157. Ans. (b)

Sol. The most appropriate phrase to fill in the blank is **(b) EV manufacturers are investing heavily in research to improve the range and efficiency of electric batteries.**

This option logically connects to the rest of the paragraph, which focuses on the advancements in electric vehicles and their impact on the automotive industry. The sentence fits well between the discussion of the changes EVs have brought and the rising demand for charging infrastructure, emphasizing the ongoing improvements in battery technology—an essential factor for the growth of EVs.

Other options:

- (a) shifts the focus to oil prices, which is unrelated to the primary topic of EV development.



- (c) introduces hybrid vehicles, which changes the focus away from electric vehicles.
- (d) introduces a challenge regarding affordability, which doesn't fit with the context of discussing advancements and rising demand.

S158. Ans. (d)

Sol. The most appropriate phrase to fill in the blank is **(d) Its ability to support real-time communication and massive device connectivity makes it ideal for emerging technologies like the Internet of Things (IoT).**

This option fits perfectly within the context of the paragraph, which discusses the transformative potential of 5G technology. The mention of real-time communication and device connectivity directly aligns with the improvements in communication networks mentioned earlier and sets up the expected benefits for industries like healthcare, transportation, and entertainment.

Other options:

- (a) shifts the focus to infrastructure investments, which is a different aspect from the transformative impact on industries.
- (b) introduces concerns about health effects, which does not match the positive tone of the paragraph.
- (c) focuses on the rollout timeline, which deviates from the main theme of benefits for industries.

S159. Ans. (b)

Sol. The most appropriate phrase to fill in the blank is **(b) Breakthroughs in gene editing and stem cell research have paved the way for innovative therapies.**

This option fits seamlessly with the context of the paragraph, which is discussing advances in biotechnology and their potential to treat previously incurable diseases. The mention of gene editing and stem cell research as breakthroughs highlights the types of advancements that contribute to this progress and sets up the following sentence about the optimism for personalized medicine.

Other options:

- (a) introduces ethical concerns, which shifts the focus away from the positive advancements being discussed.
- (c) shifts the focus to cost reduction, which is not directly relevant to the treatment advancements mentioned.
- (d) introduces an issue of public awareness, which does not align with the main theme of breakthroughs and optimism in research.

S160. Ans. (a)

Sol. The phrase "clean bill of health" means a report or confirmation that someone or something is in good condition, usually after an inspection or evaluation. It can be used both medically and figuratively.

- **Sentence (A)** uses the phrase correctly, referring to a medical examination that confirms someone is healthy.
- **Sentence (B)** also uses it correctly in a figurative sense, where a car is confirmed to be in good working order after an inspection.
- **Sentence (C)** is incorrect because "clean bill of health" does not refer to cleaning a house; it's about an inspection of health or functionality.

Therefore, the correct answer is **(a) Both A & B.**

S161. Ans. (a)

Sol. ATQ,

$$\frac{(P+800) \times 15 \times 4}{100} = P - 320$$

$$3P + 2400 = 5P - 1600$$

$$2000 = P$$

And

$$\text{Interest from another scheme} = \frac{(P-100) \times 8 \times 4}{100} = 608$$

$$\text{Required difference} = (P-320) - 608 = 1680 - 608 = \text{Rs } 1072$$

S162. Ans. (b)

$$\begin{aligned} \text{Sol. } \frac{400 \times 12}{700 \times 4 + (700 + X) \times 8 + 400 \times 12} &= \frac{9X + 1300}{13000} \\ \frac{600}{1650 + X} &= \frac{9X + 1300}{13000} \\ 9X^2 + 16150X - 5655000 &= 0 \\ 300 &= X \end{aligned}$$

S163. Ans. (c)

Sol. ATQ,

$$120000 \times \left(\frac{100-20}{100} \right) \times \left(\frac{100-2B}{100} \right) \times \frac{5}{8} = 4200$$

$$\frac{960}{8} \times 5 \times (100 - 2B) = 4200$$

$$7 = 100 - 2B$$

$$2B = 93$$

$$46.5 = B$$

S164. Ans. (b)

$$\text{Sol. Time taken by B to complete the work} = \frac{100}{50} \times 10 = 20 \text{ days}$$

Time taken by A and B together = 18 days.

Let total work be 180 unit

$$\text{Efficiency of B} = 180/20 = 9 \text{ units per day}$$

$$\text{Efficiency of A} = 180/18 - 9 = 1 \text{ unit per day}$$

$$\text{Required time} = 180/1 = 180 \text{ days}$$

Solutions (165-167):

Let the cakes baked by A, B and C be a, b, c respectively.

$$a+b+c = 126$$

$$\frac{a-b}{c-b} = \frac{2}{1}$$

$$(a+b)/2 = c$$

$$\frac{a}{\frac{a+b}{2}} = \frac{8}{7}$$

$$a/b = 4/3$$

$$4x = a, 3x = b, 3.5x = c$$

$$4x+3x+3.5x = 126$$

$$12 = x$$

Bakeries	Baked cakes	Sold cakes	Unsold cakes
A	48	41	7
B	36	29	7
C	42	35	7

S165. Ans. (a)

Sol. Required answer = 7

S166. Ans. (d)

Sol. Required percentage = $\frac{41}{42} \times 100 = 97.61\% = 98\%$ (approx.)

S167. Ans. (e)

Sol. Chocolate cakes sold by C = 20% of 35 = 7

Required difference = 7 - 7 = 0

Solutions (168 - 172):

For A

Let books published online be x and book published offline be y

$$x - y = 210$$

$$20\% (x + y) = y$$

$$x/y = 4/1 = 4m/1m$$

$$3m = 210$$

$$70 = m$$

Books published online = 280

Books published offline = 70

For C,

Let books published online be x and book published offline be y

$$x = y$$

Difference = 0 so (x=y)

Similarly,

Publishers	Total books	Books published online	Books published offline
A	350	280	70
B	280	252	28
C	2x	x	x
D	210	147	63
Total	840 + 2x	679 + x	161 + x

S168. Ans. (b)

Sol. Book published by C = 2(210) = 420

Online book published by C = 420/2 = 210

Required answer = 210 - 70 = 140

S169. Ans. (d)

Sol. Offline books published by C = 3 × (112) - 28 - 63 = 245

Required answer = 245 : $\frac{70+28}{2} = 245 : 49 = 5 : 1$

S170. Ans. (b)

Sol. Books published by F = 120% of 280 = 336

$\frac{350+210}{2}$ = offline books published by F = 280

Books published online by F = 336 - 280 = 56

Required difference = 280 - 56 = 224

S171. Ans. (b)

Sol. Required percentage = $\frac{350}{28} \times 100 = 1250\%$

S172. Ans. (a)

Sol. Required difference = $679 + x - (161 + x) = 518$

S173. Ans. (d)

Sol. Let the marked price of the table be Rs 100x

And the marked price of the chair = Rs 100x

Selling price of the table = $100x \times \frac{80}{100} = 80x$

Selling price of the chair = $100x \times \frac{70}{100} = 70x$

ATQ,

$(140 + 110) \times \frac{120}{100} = 80x + 70x$

$250 = 125x$

$2 = x$

The marked price of the chair = $100x = \text{Rs } 200$

Solutions (174-178):

For company A

Production of items on Monday = $\frac{150}{16-13} \times 16 = 800$

Production of items on Tuesday = $\frac{150}{16-13} \times 13 = 650$

Similarly

Companies	Production of items on Monday	Production of items on Tuesday
A	800	650
B	950	760
C	660	540
D	1000	750
E	400	500

S174. Ans. (d)

Sol. Required ratio = $800 : 750 = 16:15$

S175. Ans. (c)

Sol. Required percentage = $\frac{500}{1000} \times 100 = 50\%$

S176. Ans. (c)

Sol. Total production of items on Monday by B and C together = $950 + 660 = 1610$

Total production of items on Tuesday by D and E together = $750 + 500 = 1250$

Required difference = $1610 - 1250 = 360$

S177. Ans. (e)

Sol. Total production of items on Monday by F = $\frac{120}{100} \times 650 = 780$

Total production on items on Monday and Tuesday together by F

= $\frac{17}{25} \times (1000 + 750) = 1190$

Total production on items on Tuesday by F = $1190 - 780 = 410$

S178. Ans. (b)

Sol. Average of the production of items on Monday and Tuesday by B = $\frac{950+760}{2} = 855$

Required percentage = $\frac{855-500}{500} \times 100 = 71\%$

S179. Ans. (e)

Sol. Let the investment of B be Rs a

And the investment of A = $a + 2000$ Rs

Given, $x^2 + 410 = 40410$

$x^2 = 40000$

$x = 200$

The profit share of A = $16x = 16 \times 200 = \text{Rs } 3200$

The profit share of B = $6800 - 3200 = 3600$ Rs

ATQ,

$$\frac{(a + 2000) \times 8}{a \times 12} = \frac{3200}{3600}$$

$$\frac{a + 2000}{a} = \frac{4}{3}$$

$3a + 6000 = 4a$

$a = 6000$

The investment of B = Rs 6000

S180. Ans. (b)

Sol. The ratio of milk to water = 3:1

Initial quantity of milk = $60 \times \frac{3}{4} = 45$ litres

Initial quantity of water = $60 \times \frac{1}{4} = 15$ litres

ATQ,

$$\frac{45 - 8 \times \frac{3}{4} + P}{15 - 8 \times \frac{1}{4} + Q} = \frac{9}{5}$$

$$\frac{39 + P}{13 + Q} = \frac{9}{5}$$

$$195 + 5P = 117 + 9Q$$

$$78 = 9Q - 5P \dots (I)$$

Given, $P + Q = 18 \dots (II)$

From (I) & (II)

$$Q = 12, P = 6$$

Solutions (181-185):

For company A

Total male employees = 440

Let the female employees = x

$$\frac{440+x}{440-x} = \frac{9}{2}$$

$$11x = 9(440) - 2(440)$$

$$280 = x$$

For company C,

Total male employees = 400

Let the female employees = x

$$\frac{400+x}{400-x} = \frac{17}{3}$$

$$20x = 17(400) - 3(400)$$

$$280 = x$$

For company B

Total male employees = 600

Total Female employees = x

$$\frac{600+x}{600-x} = \frac{13}{2}$$

$$15x = 13(600) - 600(2)$$

$$x = 440$$

For company D,

Total male employees = 680

Total female employees = x

$$\frac{680+x}{680-x} = \frac{11}{6}$$

$$17x = 3400$$

$$x = 200$$

Companies	Total employees	Male employees	Female employees
A	720	440	280
B	1040	600	440
C	680	400	280
D	880	680	200
Total	3320	2120	1200

S181. Ans. (e)

Sol. Required ratio = $(280 + 280) : 1040$

$$= 560 : 1040$$

$$= 7 : 13$$

S182. Ans. (d)

Sol. Required percentage = $\frac{440-440}{440} \times 100 = 0\%$

S183. Ans. (a)

Sol. Total employees in X = $\frac{5}{3} \times 720 = 1200$

Total male employees in E = $\frac{5}{13} \times 1040 = 400$

Total female employees in X = 400
 Males in X = $1200 - 400 = 800$
 Required difference = $800 - 400 = 400$

S184. Ans. (e)

Sol. Male employees in F = $X + 25 = \frac{440+200}{2} = 320$

$X = 295$

Total female employees in F = 25% of 680 = 170

Total employees in F = $320 + 170 = 490$

Required difference = $490 - 295 = 195$

S185. Ans. (e)

Sol. $X = (2120 - 1200)/4 = 230$

$X=230$

S186. Ans. (e)

Sol. Let the speed of the boat and stream be $7x$ and $5x$ km/hr respectively

Given, $\frac{120}{2.5} = 7x + 5x$

$x = 4$

The speed of the boat and stream is 28 and 20 km/hr respectively

ATQ,

$\frac{d - 24}{7.5} = 28 - 20$

$d = 84$

Required time = $\frac{84}{28} = 3$ hours

S187. Ans (a)

Sol. The pattern of the series:

18, 36, 12, 24, 8, 16
 $\times 2$ $\div 3$ $\times 2$ $\div 3$ $\times 2$

S188. Ans. (d)

Sol. The pattern of the series:

136, 149, 166, 185, 208, 237
 13 17 19 23 29

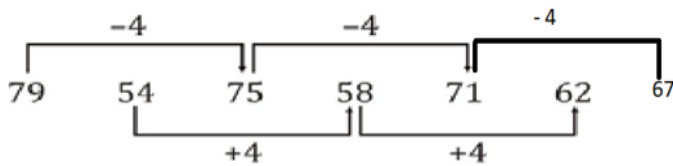
S189. Ans. (b)

Sol. The pattern of the series:

204, 208, 235, 251, 376, 412
 4 27 16 125 36

S190. Ans. (b)

Sol. Pattern of the series:



S191. Ans. (d)

Sol. Pattern of the series:

$$50 + 2^2 - 1 = 53$$

$$53 + 4^2 - 2 = 67$$

$$67 + 6^2 - 3 = 100$$

$$100 + 8^2 - 4 = 160$$

$$160 + 10^2 - 5 = 255$$

$$255 + 12^2 - 6 = 393$$

S192. Ans. (c)

Sol. Let the side of the square be x cm

And the side of the cube = $x+4$ cm

ATQ,

$$\frac{4(x+4)^2}{x^2} = \frac{9}{1}$$

$$\frac{x+4}{x} = \frac{3}{2}$$

$$2x+8=3x$$

$$x=8$$

$$\text{Required volume} = (8+4)^3 = 1728 \text{ cm}^3$$

S193. Ans. (e)

Sol. Let the speed of the trains P and Q be $3a$ and $2a$ m/sec respectively.

Let the length of the train P and Q be P meter and Q meter respectively.

$$\frac{120+Q}{2x} = \frac{P+120}{3x} - 3$$

We have 3 variable and two equation we can't solve

So, can't be determined the speed of the train Q.

S194. Ans. (b)

Sol. Given, The ratio of the ages of P to Q and Q to R is 4:5 and 3:2 respectively

The ratio of the age of P, Q and R = 12:15:10

Let the ages of P, Q and R be $12a$, $15a$ and $10a$ years respectively.

$$\text{From I. } 12a+10-10a-10 = 15a+10-12a-10$$

$$2a = 3a$$

Can't solve further

From II. $12a - 10a = 4$

$$2a = 4$$

$$a = 2$$

Required age = $15a + 10 = 40$ years

So, only Statement II alone is sufficient to answer

S195. Ans. (d)

Sol. Let the cost price of P and Q be $4x$ and $5x$ respectively

From I. Selling price of P = $\frac{140}{100} \times 4 = 5.6x$

Selling price of Q = $5x + 420$

Marked price of P = $\frac{5.6x}{75} \times 100 = \frac{112}{15}x$

Marked price of Q = $\frac{5x+420}{75} \times 100 = (5x + 420) \times \frac{4}{3}$

From II. The marked price of both the articles is the same.

Both statement together

$$\frac{112}{15}x = (5x + 420) \times \frac{4}{3}$$

$$\frac{28x}{5} = 5x + 420$$

$$28x - 25x = 2100$$

$$x = 700$$

Selling price of Q = $5x + 420 = \text{Rs } 3920$

So, both statement together is sufficient to answer

S196. Ans. (c)

Sol. Let the A, B, C, D and E be $a, b, c, d,$ and e respectively

Given, $a + b + c = 90 \dots (i)$

$c + d + e = 57 \dots (ii)$

$a + e = 46 \dots (iii)$

$b + e = 48 \dots (iv)$

We have 4 equation and 5 variable
we can't find the value of B.

S197. Ans. (a)

Sol. $780 + 90 \div 30 = 40 + ? + 169$

$$574 = ?$$

S198. Ans. (e)

Sol. $238 \div 6 + \sqrt{839} \times 5 = ? + 119.98$

$240 \div 6 + \sqrt{841} \times 5 = ? + 120$

$$65 = ?$$

S199. Ans. (a)

Sol. I. $x^2 + \frac{9x}{2} + \frac{7}{2} = -\frac{3}{2}$

$2x^2 + 9x + 7 = -3$

$2x^2 + 9x + 10 = 0$

$2x^2 + 4x + 5x + 10 = 0$

$x = -\frac{5}{2}, -2$

II. $y^2 + 16y + 63 = 0$

$y^2 + 7y + 9y + 63 = 0$

$y = -7, -9$

So, $x > y$

S200. Ans. (b)

Sol. I. $3x^2 + 17x + 24 = 0$

$3x^2 + 9x + 8x + 24 = 0$

$x = -3, -8/3$

II. $y^2 + 12y + 27 = 0$

$y^2 + 9y + 3y + 27 = 0$

$y = -9, -3$

$x \geq y$

