

NICL AO Prelims Memory Based Paper 20 July 2025

Directions (1-10): Read the following passage and answer the given questions.

Finding the right person has never been easy. But in recent years, dating apps powered by Artificial Intelligence have tried to make this process simpler and smarter for millions of people around the world. Today, these apps do much more than just show a list of nearby profiles — they study user choices, learn preferences, and suggest matches that are most likely to be a good fit. What was once a matter of luck has gradually become a matter of data.

The way AI works inside these apps is not difficult to understand. Every time a user swipes left or right, starts a conversation, or spends extra time looking at a particular profile, the app quietly records that behaviour. Over time, the AI uses all of this information to grow more accurate in the kind of matches it recommends. The more a person uses the app, the better it understands what they are genuinely looking for — going far beyond simple filters like age and location to pick up on patterns that even the user might not have noticed about themselves.

From a business point of view, AI has helped dating app companies capture a much larger share of the overall digital matchmaking market. Platforms that use intelligent personalisation consistently perform better than those that rely on basic search tools. When users feel that an app truly understands their preferences, they are far more likely to continue using it and paying for premium features. This growing base of loyal, paying users has made AI investment a top priority for every major dating platform operating today. AI has also changed how these apps approach the problem of user safety. Automated systems now detect fake profiles, flag inappropriate messages, and verify photographs — making the overall experience considerably safer than it was in the early days of online dating.

Not everyone, however, is comfortable with the idea of an algorithm deciding who they should meet. Many users feel that love, by its very nature, should involve a degree of _____ that no machine can fully replicate or plan for.

Q1. Choose the word most similar in meaning to “share” as used in the passage.

- (a) distribute
- (b) captured
- (c) fragment
- (d) segment
- (e) allocation

Ans.(d)

Q2. Choose the word most similar in meaning to “approach” as used in the passage.

- (a) attain
- (b) track
- (c) direction
- (d) technique
- (e) pathway

Ans.(d)

Q3. Which of the following statement(s) is/are correct according to the passage?

(I) AI safety systems in dating apps currently guarantee complete elimination of fake profiles and inappropriate content.



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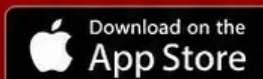


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(II) Platforms using intelligent personalisation consistently outperform those relying on basic search tools in the digital matchmaking market.

(III) AI-powered dating apps study user behaviour including swipes conversations and time spent on profiles to improve match recommendations.

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

Ans.(d)

Q4. Which of the following statement(s) is/are incorrect according to the passage?

(I) Users who feel an app understands their preferences are more likely to continue using it and pay for premium features.

(II) AI in dating apps has made the overall experience considerably more dangerous compared to the early days of online dating.

(III) The more frequently a person uses a dating app the better the AI understands their genuine preferences over time.

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

Ans.(b)

Q5. Choose the most appropriate word to fill in the blank given in the passage.

- (a) planning
- (b) logic
- (c) chance
- (d) patience
- (e) choice

Ans.(c)

Q6. What does the passage suggest about how AI improves match recommendations in dating apps?

(a) It relies exclusively on user-specified filters like age and location to identify the most compatible profiles

(b) It analyses patterns in user behaviour that go beyond basic filters to identify preferences the user may not have recognised

(c) It randomly suggests profiles from a database and adjusts recommendations based on user complaints

(d) It compares users with demographically similar profiles to identify the highest probability of physical attraction

(e) It uses information provided during initial registration to build a permanent unchanging preference profile

Ans.(b)

Q7. According to the passage, why has AI investment become a top priority for major dating platforms?

- (a) Government regulations require all dating platforms to implement AI safety systems before operating legally
- (b) AI reduces the operational costs of dating platforms by eliminating the need for human customer support teams
- (c) Major investors specifically demand AI integration before providing funding to any new dating platform
- (d) AI allows dating platforms to collect and sell user behavioural data to third-party advertising companies profitably
- (e) Personalised AI creates loyal paying users making it commercially essential for platforms competing in the market

Ans.(e)

Q8. What concern does the passage raise about AI-driven matchmaking from the user's perspective?

- (a) Users worry that AI recommendations are based on inaccurate data collected without their knowledge or consent
- (b) Many users believe AI matchmaking favours users with more attractive profile photographs over genuine compatibility
- (c) Users are concerned that premium features powered by AI are priced too high for average income earners
- (d) Many users feel uncomfortable with an algorithm making decisions about something as personal as romantic connection
- (e) Users are troubled by the fact that AI systems cannot distinguish between genuine and fake user photographs

Ans.(d)

Q9. What broader shift in how romantic connections are formed does the passage describe?

- (a) People have largely abandoned traditional methods of meeting partners in favour of exclusively digital interactions
- (b) The romantic preferences of users have become more predictable and uniform due to algorithmic standardisation
- (c) Younger generations now prefer AI-curated relationships over connections formed through shared social experiences
- (d) Dating apps have replaced all other forms of social interaction making in-person meetings increasingly irrelevant
- (e) What was once determined by chance and circumstance has gradually been shaped by data and algorithmic learning

Ans.(e)

Q10. Based on the passage, which specific measures do automated AI safety systems employ to enhance user safety on dating platforms?

- (a) Encrypting user messages and restricting profile visibility based on location
- (b) Detecting fake profiles, flagging inappropriate messages, and verifying photographs
- (c) Requiring biometric verification and monitoring all external user conversations

- (d) Restricting premium features until a user submits government-issued identification
(e) Blocking users automatically whenever a negative swipe pattern is recorded

Ans.(b)

Directions (11-15): In the following passage there are blanks, each of which has been denoted by a letter. For each blank, five options are given. Choose the most appropriate word from the options that fits the blank appropriately.

In recent years, the widespread deployment of digital payment systems across rural India has significantly _____ (A) financial inclusion. By enabling seamless transfers directly into bank accounts, government welfare schemes can now reach beneficiaries without administrative delays. This digital shift has not only reduced transaction costs but has also allowed small entrepreneurs to _____ (B) their local businesses by accessing formal credit.

To maintain this momentum, state governments are working to _____ (C) digital literacy programs in remote areas so that citizens can safely navigate online banking services. Local administration bodies are actively partnering with community banks to _____ (D) grievances related to failed transactions. If implemented effectively, these governance measures will help create a robust framework to _____ (E) long-term socio-economic growth in rural regions.

Q11. Which of the following fits in blank (A)?

- (a) accelerated
- (b) obstructed
- (c) measured
- (d) observed
- (e) regulated

Ans.(a)

Q12. Which of the following fits in blank (B)?

- (a) extol
- (b) expand
- (c) lengthen
- (d) assert
- (e) retrieve

Ans.(b)

Q13. Which of the following fits in blank (C)?

- (a) postpone
- (b) discontinue
- (c) implement
- (d) evaluate
- (e) document

Ans.(c)

Q14. Which of the following fits in blank (D)?

- (a) resolve
- (b) register

- (c) investigate
- (d) acknowledge
- (e) communicate

Ans.(a)

Q15. Which of the following fits in blank (E)?

- (a) defend
- (b) retain
- (c) replenish
- (d) hold
- (e) sustain

Ans.(e)

Directions (16-20): In the following question, a sentence is divided into few parts. Rearrange these parts and identify the correct sequence making the sentence grammatically and contextually correct.

- Q16.** (A) the global supply chain
(B) caused significant delays in
(C) the sudden increase in demand
(D) raw material deliveries across
(a) DBAC
(b) CBDA
(c) DBCA
(d) CDAB
(e) No rearrangement required

Ans.(b)

- Q17.** (A) energy solutions to lower
(B) many municipal councils are
(C) actively investing in renewable
(D) city carbon emissions
(a) DBAC
(b) CBAD
(c) DBCA
(d) BCAD
(e) No rearrangement required

Ans.(d)

- Q18.** (A) develop essential research
(B) regularly helps students
(C) writing academic papers
(D) skills for their future careers
(a) CBAD
(b) BDCA
(c) ADCB

- (d) DBAC
(e) No rearrangement required

Ans.(a)

- Q19.** (A) the competitive market
(B) maintain its position in
(C) an innovative product to
(D) the technology company launched
(a) DABC
(b) DCBA
(c) CDAB
(d) BADC
(e) No rearrangement required

Ans.(b)

- Q20.** (A) despite facing severe
(B) team of mountaineers reached
(C) the mountain peak successfully
(D) weather conditions, the
(a) BDAC
(b) BCAD
(c) ADBC
(d) ACDB
(e) No rearrangement required

Ans.(c)

Directions (21-25): The sentence is divided into four segments: (A), (B), (C), and (D). Identify the segment that contains a grammatical error. If the sentence is both grammatically and contextually correct, select "No error" as the correct answer.

- Q21.** The school recently opened (A)/ a fully equipped language (B)/ lab to help students (C)/ improve their spoken English skills. (D)
(a) A
(b) B
(c) C
(d) D
(e) No error

Ans.(e)

- Q22.** Every student sitting quietly (A)/ in the crowded exam (B)/ hall that morning finally (C)/ were instructed to switch off their phones. (D)
(a) A
(b) B
(c) C
(d) D

(e) No error

Ans.(d)

Q23. Judges said this year's (A)/ entries were the most (B)/ creative than the ones (C)/ submitted during last year's competition. (D)

(a) A

(b) B

(c) C

(d) D

(e) No error

Ans.(b)

Q24. The blood donation drive (A)/ organised last week has (B)/ being appreciated by doctors (C)/ from the nearby government hospital. (D)

(a) A

(b) B

(c) C

(d) D

(e) No error

Ans.(c)

Q25. Teachers requested parents attending (A)/ the meeting arriving on (B)/ time and avoid bringing (C)/ young children along with them. (D)

(a) A

(b) B

(c) C

(d) D

(e) No error

Ans.(b)

Q26. In the question below, a word is omitted. Choose the correct word from the given options that can fill the given blank, making the sentence grammatically and contextually correct.

The policy shift is expected to _____ greater trust between the administration and the public.

(a) enthusiasm

(b) engender

(c) encumber

(d) enervate

(e) endanger

Ans.(b)

Q27. In the question given below, a statement has been given with a blank. Some words have been given in the options following the statement. Choose the most appropriate word or phrase that could fit in the statement to make it contextually meaningful and grammatically correct.

A tall electric fence was constructed outside the prison to _____ prison escapes.

(a) clutter

- (b) hover
- (c) limit
- (d) aviator
- (e) evacuate

Ans.(c)

Q28. In the question given below, a statement has been given with a blank. Some words have been given in the options following the statement. Choose the most appropriate word or phrase that could fit in the statement to make it contextually meaningful and grammatically correct.

My dog is usually friendly and cheerful, so his reclusive and hostile behaviour today is absolutely_____.

- (a) welcoming
- (b) setup
- (c) diverted
- (d) growing
- (e) confounding

Ans.(e)

Q29. In the question below, a part is highlighted in bold, which may not be grammatically correct. Choose the correct alternative for the highlighted part to make the sentence grammatically correct.

The passenger was injured because of the bus crashed into the barrier.

- (a) because the bus crashed
- (b) due too the bus crashed
- (c) because off crashing bus
- (d) since the bus was crash
- (e) No replacement required

Ans.(a)

Q30. In the question below, a part is highlighted in bold, which may not be grammatically correct. Choose the correct alternative for the highlighted part to make the sentence grammatically correct.

Small details should not be overlooked with while finalizing the report.

- (a) should not be overlooked by
- (b) should not be overlooked
- (c) should not be overlooking with
- (d) should not have overlooked with
- (e) No replacement required

Ans.(b)

Directions (31-35): Read the following information carefully and answer the questions given below:

Eight persons – O, P, Q, R, S, T, V and W –sit in a linear row where some of them face north and some face south, but not necessarily in the same order.

R sits third to the right of Q. V and Q faces opposite direction to each other. One of the immediate neighbours of Q sits third to the right of V who faces south. S sits fourth to the left of R. Five persons sit between S and W who is not an immediate neighbour of V. Both S and W face in direction opposite to R.

O sits second to the left of P who is not an immediate of R. T sits third to the right of O and face the direction opposite to O.

Q31. Who sits immediate left of the person who sits second to the right of W?

- (a) T
- (b) W
- (c) V
- (d) S
- (e) None of these

Ans.(c)

Q32. What is the position of S with respect to W?

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

Ans.(c)

Q33. Which among the following statements is/are incorrect?

- (a) P and Q face the same direction.
- (b) T faces north.
- (c) Q is the only immediate neighbour of S.
- (d) S faces south
- (e) None is incorrect

Ans.(e)

Q34. Which among the following pair of persons faces the same direction?

- I. S and P
 - II. W and V
 - III. O and S
- (a) Only I
 - (b) Both II and III
 - (c) Only II
 - (d) Only III
 - (e) Both I and III

Ans.(b)

Q35. Between which of the following pair of persons only two persons sit?

- (a) P and W
- (b) S and V
- (c) O and T
- (d) Q and W
- (e) Both [b] and [c]

Ans.(e)

Directions (36-): In these questions, the relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

Q36. Statements: $R > S \leq U$; $V \geq W = U$; $Y = Z \leq W$

Conclusions:

I. $R > Z$

II. $V = Y$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusions I and II are true.

Ans.(d)

Q37. Statements: $K = O > M \geq N$; $O < P > M$; $E \geq H = P$

Conclusions:

I. $N \leq P$

II. $E > M$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusions I and II are true.

Ans.(b)

Q38. Statements: $I = P < K < L > M \leq J$; $N \leq O \geq K$

Conclusions:

I. $I < O$

II. $J \geq P$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusions I and II are true.

Ans.(a)

Q39. Statements: $A < B \geq C = D$; $E = F > G < D \leq T$

Conclusions:

I. $B > G$

II. $A \geq E$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.

- (d) If neither conclusion I nor II is true.
(e) If both conclusions I and II are true.

Ans.(a)

Q40. Statements: $P \geq Q < R = S$; $T < U \geq V = Q$; $W = X > U$

Conclusions:

I. $R \geq X$

II. $W > S$

- (a) If only conclusion I is true.
(b) If only conclusion II is true.
(c) If either conclusion I or II is true.
(d) If neither conclusion I nor II is true.
(e) If both conclusions I and II are true.

Ans.(c)

Directions (41-45): Study the following information carefully and answer the questions given below:
Nine persons – A, B, C, D, E, F, G, H, and I – were born in nine different months -January to September of the same year (not leap year), but not necessarily in the same order. Each of them likes a different fruit – Apple, Banana, Mango, Grapes, Orange, Papaya, Watermelon, Litchi, and Pineapple.

The one who likes litchi was born immediately after H and six months before G. More than three persons were born between G and the one who likes Papaya. The number of persons born before the one who likes Papaya is one more than the number of persons born after the one who likes Apple. C was born after the one who likes Apple. The one who likes Orange was born three months before D. Two persons were born between C and D who doesn't like watermelon. I was born after the one who likes Watermelon and before the one who likes Mango in June. B was born immediately before A. Three persons were born between the ones who like Grapes and Banana. The one who likes banana was born after D who was born before E.

Q41. The one who was born in September likes which of the following fruits?

- (a) Grapes
(b) Orange
(c) Watermelon
(d) Banana
(e) Pineapple

Ans.(d)

Q42. Who among the following was born five months after the person who likes Watermelon?

- (a) D
(b) E
(c) C
(d) The one who was born two months before the one who likes Grapes.
(e) The one who was born two months before the one who likes Mango.

Ans.(e)

Q43. How many persons were born between G and the one who likes Grapes?

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

Ans.(e)

Q44. If F is related to papaya and in the same way D is related to Mango then H is related to who among the following?

- (a) Grapes
- (b) Orange
- (c) Litchi
- (d) Banana
- (e) Apple

Ans.(a)

Q45. If all the persons are arranged in alphabetical order from first month to the last month, then the birth month of how many persons remains unchanged?

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

Ans.(d)

Q46. In the number '57293584', how many pairs of the digits have the same number between them (both forward and backward direction) in the number series?

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

Ans.(e)

Directions (47-49): Study the following information carefully and answer the questions given below:
Point A is 10m west of Point K. Point B is 3m east of Point C. Point L is 8m west of Point F. Point R is 7m east of Point F. Point C is 4m north of Point R and 7m east of Point P. Point S is 6m south of Point B and 8m east of Point K.

Q47. Four of the following five are alike in a certain way and thus form a group. Find the one pair of points which does not belong to the group?

- (a) LA
- (b) FK
- (c) CR
- (d) BS

(e) PF

Ans.(b)

Q48. In which direction is point L with respect to point K?

- (a) North-east
- (b) South-west
- (c) North-west
- (d) South-east
- (e) East

Ans.(c)

Q49. What is the shortest distance between Point P and Point L?

- (a) 85m
- (b) 80m
- (c) 82m
- (d) $\sqrt{80}$ m
- (e) 83m

Ans.(d)

Q50. If 1 is subtracted from each even digit and 1 is added to each odd digit in the number '61285432', then what is the sum of digits that are greater than 4 in the new number thus formed?

- (a) 17
- (b) 18
- (c) 12
- (d) 6
- (e) None of these

Ans.(b)

Directions (51-55): Study the following information carefully and answer the questions given below:
Nine boxes – I, J, K, L, M, N, O, P, and Q – are kept one above the other in a stack (not necessarily in the same order).

Box M is kept immediately above box P but three boxes below box Q. There is one box kept between box Q and box N. Box I is kept exactly between box N and box K. More than one box is kept between box Q and box I. As many boxes are kept between box I and box O as between box O and box J. Box L is not kept below box J.

Q51. Which among the following statements is/are true?

- I. Box Q is kept above box J
- II. Box K is kept at the bottommost position
- III. Box M and box I are kept adjacent to each other

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

Ans.(d)

Q52. Which box is kept four boxes below the box which is kept immediately below box Q?

- (a) Box I
- (b) Box M
- (c) Box O
- (d) Box J
- (e) Box L

Ans.(a)

Q53. How many boxes are kept between box O and box M?

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

Ans.(b)

Q54. The number of boxes kept above box P is two more than the number of boxes kept below ____.

- (a) Box I
- (b) Box L
- (c) Box O
- (d) Box K
- (e) Box J

Ans.(c)

Q55. What is the position of box I with respect to box L?

- (a) Two boxes above
- (b) Four boxes below
- (c) Three boxes below
- (d) Immediately below
- (e) Four boxes above

Ans.(b)

Directions (56-59): Study the following information carefully and answer the question given below:

A certain number of persons sit in a linear row and face north. Five persons sit between X and G. U is an immediate neighbour of G. T sits fifth to the left of U. Two persons sit between G and R who sits adjacent to T. Four persons sit between R and M who is not an immediate neighbour of U. As many persons sit to the right of U as to the left of T. H sits second to the right of M. M sits third from one of the extreme ends of the row.

Q56. Who sits tenth to the left of the person who sits second from the extreme right end of the row?

- (a) T
- (b) R
- (c) H

(d) Unknown person

(e) G

Ans.(a)

Q57. What is the position of H with respect to X?

(a) 11th to the right

(b) 13th to the left

(c) 10th to the right

(d) 12th to the left

(e) 15th to the left

Ans.(d)

Q58. How many persons sit in the row?

(a) 19

(b) 14

(c) 15

(d) 16

(e) 18

Ans.(e)

Q59. Who sits exactly between G and H in this row?

(a) The one who sits fifth to the right of M.

(b) The one who sits third to the left of U.

(c) X

(d) Unknown person

(e) T

Ans.(a)

Q60. If it is possible to make a meaningful word with the first, third, fourth and ninth letters of the word 'BEGINNING', which would be the second letter of the word? If more than one such meaningful word can be formed, give 'X' as the answer. If no such meaningful word can be formed, give 'Z' as your answer.

(a) A

(b) Z

(c) T

(d) H

(e) X

Ans.(b)

Directions (61-65): Study the following information carefully and answer the questions given below:
Eight persons – A, B, C, D, E, F, G, and H – live in a four-storey building (but not necessarily in the same order), where the lowermost floor is numbered as 1 and the floor immediately above it is numbered as 2, and so on.

Note-I: Each floor has two types of flats, i.e., Flat M and Flat N, where Flat M is to the west of Flat N.

Note-II: Flat N of floor 2 is immediately above Flat N of floor 1 and immediately below Flat N of floor 3, and similarly for Flat M.

Note-III: The area of each flat is the same.

Note-IV: Only two persons live on each floor, and only one person lives in each flat.

D lives above E. There is one floor between E and B who lives to the north-west of D. E and D live in the same named flat. G lives either two floors above or two floors below D. The sum of floor numbers of G and F is equal to floor number of A. H lives on a floor above A. The person who lives two floors below H in the same named flat lives to the north-east of G.

Q61. In which among the following floor and flat does C live?

- (a) Floor 1, Flat M
- (b) Floor 1, Flat N
- (c) Floor 3, Flat M
- (d) Floor 2, Flat N
- (e) Floor 2, Flat M

Ans.(b)

Q62. Four of the following five are alike in a certain way and thus form a group. Find the one who doesn't belong to the group?

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

Ans.(b)

Q63. Who among the following person lives two floors below H in the same named flat?

- (a) C
- (b) G
- (c) E
- (d) F
- (e) H

Ans.(c)

Q64. If F and G interchanged their floors and in the same way H and C interchanged their floors then who lives to the east of F?

- (a) E
- (b) D
- (c) C
- (d) G
- (e) H

Ans.(e)

Q65. What is the sum of the floor numbers of G, F and D?

- (a) Either 7 or 9
- (b) 7
- (c) 6

- (d) 9
(e) None of these

Ans.(c)

Directions (66-69): Read the following information carefully and answer the questions given below.
The information about fiction and non-fiction books in three different books stores.

The ratio of the non-fiction books in A to fiction books in B is 5:3, respectively. The fiction books in C are 20 more than those of B, and the total books (fiction + non-fiction) in C are 200, which is 20% less than those of A. Non-fiction books in B are 60, and the average fiction books in all the stores is 100.

Q66. Find the total number of non-fiction books in A and C together.

- (a) 240
(b) 300
(c) 250
(d) 210
(e) 220

Ans.(a)

Q67. Find the difference between the total fiction books in C and that in B.

- (a) 20
(b) 10
(c) 5
(d) 25
(e) 30

Ans.(a)

Q68. If the total books (fiction + non-fiction) in D is 75% that of C and the fiction books in D are half that of A, then find the total non-fiction books in D.

- (a) 40
(b) 70
(c) 50
(d) 120
(e) 100

Ans.(e)

Q69. The ratio of horror books to fiction books in B is 5:3, respectively. Find the total number of horror and non-fiction books in B.

- (a) 190
(b) 220
(c) 230
(d) 210
(e) 200

Ans.(d)

Directions (70-75): Read the following table carefully and answer the questions given below. The table shows the total number of female employees and the fraction of male employees out of total employees in four companies.

Companies	Total female employees	Fraction of male employees
A	120	$\frac{1}{5}$
B	180	$\frac{1}{4}$
C	150	$\frac{2}{5}$
D	210	$\frac{3}{10}$

Note: Total employees: Male employees + Female employees.

Q70. Find the ratio of the total number of male employees in D to the total number of employees in A.

- (a) 1:5
- (b) 4:1
- (c) 5:4
- (d) 3:5
- (e) 5:9

Ans.(d)

Q71. The total number of male employees in B is what percentage more or less than the total number of employees in A?

- (a) 60%
- (b) 40%
- (c) 75%
- (d) 80%
- (e) 25%

Ans.(a)

Q72. Find the total number of employees in all the companies together.

- (a) 950
- (b) 990
- (c) 940
- (d) 910
- (e) 930

Ans.(c)

Q73. The total employees in E is 50% more than that of B. If the ratio of the total number of male employees in E to A is 4:3, respectively, then find the total number of female employees in E.

- (a) 340
- (b) 310
- (c) 320
- (d) 330
- (e) 300

Ans.(c)

Q74. The total number of male employees in F is $\frac{5}{7}$ th of the total number of female employees in D. If the average number of female employees in F and B is 170, then find the total number of employees in F.

- (a) 310
- (b) 290
- (c) 280
- (d) 340
- (e) 320

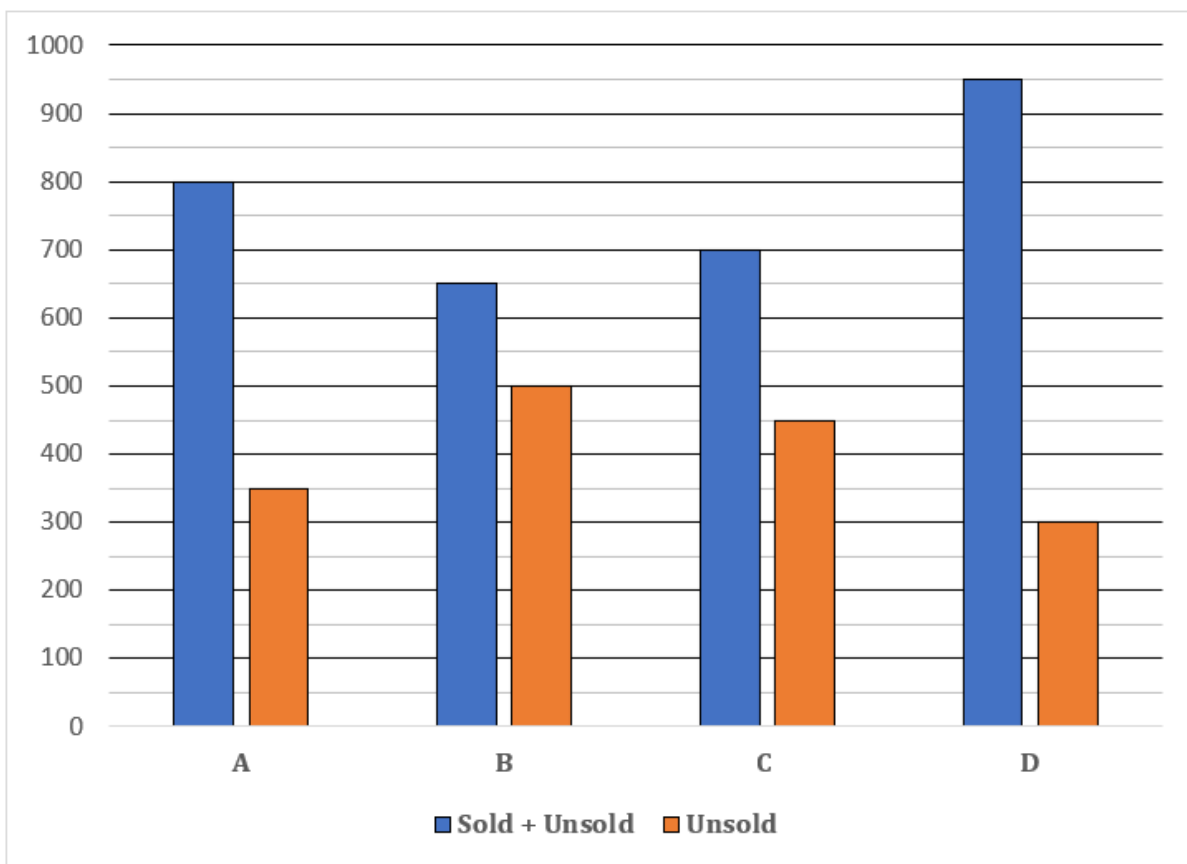
Ans.(a)

Q75. The total number of male employees in all companies together is how many more or less than that of female employees?

- (a) 420
- (b) 380
- (c) 440
- (d) 340
- (e) 410

Ans.(b)

Directions (76-81): Read the following bar graph carefully and answer the questions given below. The bar graph shows the total number of items sold and unsold together and the total number of items unsold by four shops.



Q76. Find the difference between the total number of items sold by D and B together and the total number of unsold items by A and C together.

- (a) 100
- (b) 0
- (c) 10
- (d) 20
- (e) 50

Ans.(b)

Q77. Find the ratio of the total number of items sold by A to the total number of items unsold by B.

- (a) 10:9
- (b) 9:10
- (c) 11:10
- (d) 10:11
- (e) 11:13

Ans.(b)

Q78. The total number of items sold by C is what percentage of the total number of sold and unsold items together by A?

- (a) 31.25%
- (b) 45.50%
- (c) 42.25%
- (d) 38.33%
- (e) 51.75%

Ans.(a)

Q79. If the total number of sold items by E is 20% more than that by A and the total number of unsold items by E is the average of the unsold items by B and D, then find the difference between the total number of sold and unsold items by E.

- (a) 130
- (b) 110
- (c) 140
- (d) 120
- (e) 150

Ans.(c)

Q80. If 40% of the items sold by C are defective and the total number of non-defective items sold by C to D is in the ratio of 3:5, respectively, then find the sum of the total number of defective items sold by C and D together.

- (a) 600
- (b) 400
- (c) 500
- (d) 450
- (e) 550

Ans.(c)

Q81. The average number of items sold by all four shops is what percentage of the total unsold items by B?

- (a) 45%
- (b) 75%
- (c) 65%
- (d) 50%
- (e) 70%

Ans.(b)

Q82. What will come in the place of question (?) mark in following number series:
?, 215, 228, 245, 264, 287

- (a) 200
- (b) 204
- (c) 198
- (d) 178
- (e) 242

Ans.(b)

Q83. What will come in the place of question (?) mark in following number series:
19, ?, 171, 514, 1243, 2574

- (a) 44
- (b) 46
- (c) 40
- (d) 38
- (e) 32

Ans.(b)

Q84. What will come in the place of question (?) mark in following number series:
?, 42, 86, 174, 350, 702

- (a) 20
- (b) 21
- (c) 23
- (d) 22
- (e) 25

Ans.(a)

Q85. What will come in the place of question (?) mark in following number series:
23, 28, 35, 45, 59, ?

- (a) 87
- (b) 93
- (c) 80
- (d) 78
- (e) 56

Ans.(d)

Q86. What will come in the place of question (?) mark in following number series:

134, 159, 123, 172, ?, 189

- (a) 132
- (b) 145
- (c) 198
- (d) 108
- (e) 157

Ans.(d)

Q87. What approximate value should come in place of the question mark (?) in the following question?

$719.6 \div 18.2 + 48.9\% \text{ of } 202.5 = ?$

- (a) 125
- (b) 135
- (c) 140
- (d) 145
- (e) 150

Ans.(c)

Q88. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

$4.02^2 \times 40.02 \div 4.01^3 - 2.001 = ?^3$

- (a) 15
- (b) 9
- (c) 7
- (d) 4
- (e) 2

Ans.(e)

Q89. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

$12.89 \times 9.02 + 144.21 \times 3.99 - 7^2 = ?$

- (a) 726
- (b) 532
- (c) 444
- (d) 850
- (e) 644

Ans.(e)

Q90. What approximate value should come in place of the question mark (?) in the following questions?

$(12.01)^2 + ?/10.99 = (16.02)^2 + \sqrt{1935.91}$

- (a) 1228
- (b) 1344
- (c) 1472
- (d) 1716

(e) 1560

Ans.(d)

Q91. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

$$?^2 = \frac{\sqrt[3]{3375.12 \times 191.86}}{12.09} + 12.48\% \text{ of } 6400.2$$

(a) 32

(b) 68

(c) 74

(d) 81

(e) 45

Ans.(a)

Q92. A and B entered into a business with the capital of Rs. (X + 1200) and Rs (X+1500) respectively. After eight months from starting A withdraw half of his investment and B doubled his investment. If at the end of the year A got Rs. 4250 as profit share out of total profit of Rs. 11250, then find three times of initial investment of B ?

(a) Rs 32,400

(b) Rs 30,750

(c) Rs 30,500

(d) Rs 31,500

(e) Rs 31,770

Ans.(d)

Q93. The average of 14 numbers in descending order is 72.5. If the average of the first 8 numbers is 80 while the average of the last 4 numbers is 62.5, then find the 9th number, if the difference between the 9th and 10th number is 5?

(a) 68

(b) 65

(c) 63

(d) 64

(e) 66

Ans.(b)

Q94. The present age of A is 50% more than B and the ratio of A's age five years ago to B's age ten years hence is 1 : 2. Find the sum of present age A & B?

(a) 30 years

(b) 25 years

(c) 45 years

(d) 35 years

(e) 20 years

Ans.(b)

Q95. A shopkeeper marked an article 40% above the cost price and sold them after giving two successive discounts of 25% and 20% to a man. If the shopkeeper would have given a discount of 10% instead of 25%, then he would have made a profit of Rs. 40. Find the selling price of the article (in Rs.)?

- (a) 3600
- (b) 3000
- (c) 4200
- (d) 4800
- (e) 5400

Ans.(c)

Q96. Aman invested Rs 8000 at 15% p.a. on simple interest for T years, while Bhavya invested Rs 10000 at 10% p.a. compounding annually for two years. Aman received Rs 1500 more as interest than Bhavya, if Bhavya invested Rs. 6000 at 5% p.a. on simple interest for (T+1) years, then he gets total interest of Rs. ____.

- (a) 600
- (b) 1040
- (c) 800
- (d) 1600
- (e) 1200

Ans.(e)

Q97. Set A contains 5 consecutive multiples of 4, while Set B contains 4 consecutive multiples of 6. The average of Set A is 32, and the average of Set B is 33. Find the difference between the largest number of Set B and the smallest number of Set A.

- (a) 26
- (b) 24
- (c) 22
- (d) 20
- (e) 18

Ans.(e)

Q98. The ratio of the length of train A to train B is 25:19, respectively, and train A crosses a pole in 23 seconds. The speed of train A and train B is the same, which is 25 m/sec. Find the time taken by train B to cross the 163-meter-long bridge (in seconds).

- (a) 21
- (b) 24
- (c) 23
- (d) 22
- (e) 20

Ans.(b)

Q99. The speed of a boat in still water is 20 km/hr and the ratio of downstream to upstream speed of the boat is 5 : 3 respectively. Find the time taken by the boat to cover 240 km downstream (in hours).

- (a) 9.4
- (b) 9.2

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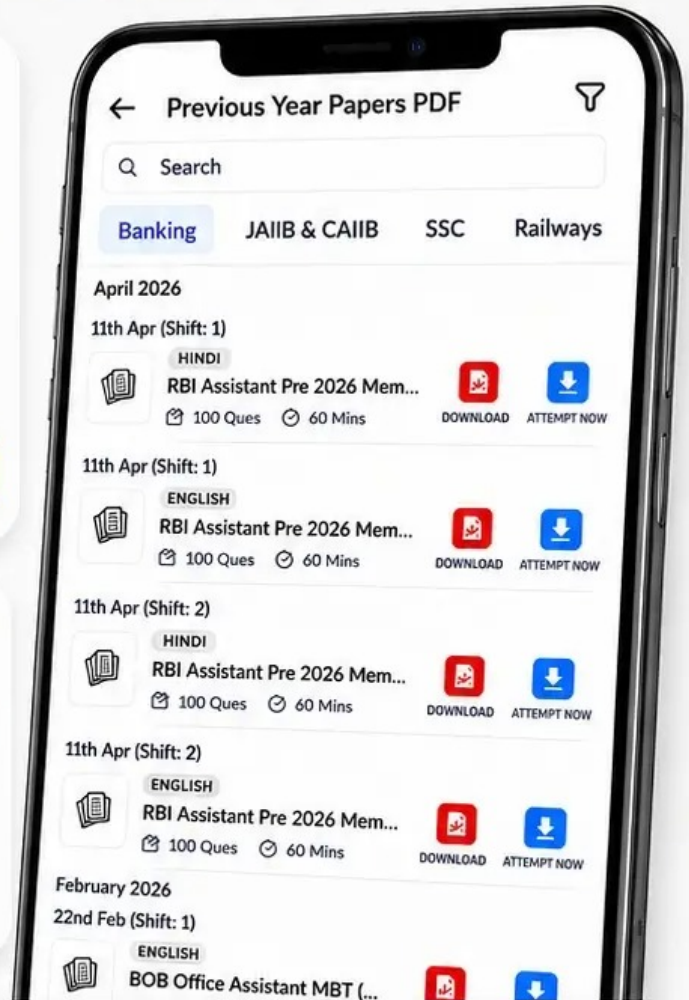
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- (c) 9.6
- (d) 9.8
- (e) 10.2

Ans.(c)

Q100. $\frac{2}{3}$ rd of first number is equal to the cube of the second number. If the second number is equal to 12% of 100, then what is sum of the first & second number?

- (a) 2408
- (b) 2640
- (c) 2426
- (d) 2604
- (e) 2804

Ans.(d)

