Indian Air Force AFCAT II 2023 (Memory Based)

Directions (1-4): Read the following passage carefully and answer the question given below it.

There was once a woman who was very, very cheerful, though she had little to make her so; for she was old, and poor, and lonely. She lived in a little bit of a cottage and earned a scant living by running errands for her neighbors, getting a bite here, a sup there, as reward for her services. So, she made shift to get on, and always looked as spry and cheery as if she had not a want in the world.

Now one summer evening, as she was trotting, full of smiles as ever, along the high road to her hovel, what should she see but a big black pot lying in the ditch!

"Goodness me!" she cried, "that would be just the very thing for me if I only had something to put in it! But I haven't! Now who could have left it in the ditch?"

And she looked about her expecting the owner would not be far off; but she could see nobody.

"Maybe there is a hole in it," she went on, "and that's why it has been cast away. But it would do fine to put a flower in for my window; so, I'll just take it home with me."

And with that she lifted the lid and looked inside. "Mercy me!" she cried, fair amazed. "If it isn't full of gold pieces. Here's luck!"

And so it was, brimful of great gold coins. Well, at first, she simply stood stock-still, wondering if she was standing on her head or her heels.

Q1. Why was the old woman surprised to find the pot on the road?
(a) It was made of gold.
(b) It was full of flowers.
(c) She expected the owner to be nearby.
(d) She thought it was too small.

Q2. What did the old woman initially think she would do with the pot?
(a) Cook dinner in it.
(b) Fill it with gold.
(c) Put a flower in it for her window.
(d) Give it to her neighbor.

Q3. How did the old woman earn her living?
(a) By finding gold.
(b) By cooking for her neighbors.
(c) By running errands for her neighbors.
(d) By selling flowers.

Q4. What did the old woman find inside the pot?
(a) A hole.
(b) A flower.
(c) Water.
(d) Gold pieces.

Q5. Identify the part of the sentence that contains a prepositional error:

"Despite of his hard work in preparation for the exams, John was unable to achieve the desired results."

(a) Despite of his hard work

(b) in preparation for the exams,

(c) John was unable to achieve

(d) the desired results.

Q6. Identify the part of the sentence that contains an article error:

"He is known as an best writer in the field of historical fiction, and his novels are admired by critics and readers alike."

(a) He is known as

(b) an best writer in

(c) the field of historical fiction,

(d) and his novels are admired by

Q7. Identify the part of the sentence that contains an error:

"She had a little money saved up, but the little she had was enough to buy a new dress."

(a) She had a little money

(b) saved up, but the little

(c) she had was enough to buy a new dress.

(d) No error

Q8. Fill in the blank with the most appropriate option.

"He's good _____ playing the guitar, and he often performs at local events."

(a) in

(b) at

(c) on

(d) with

Q9. Fill in the blank with the most appropriate option.

"I saw _____ most beautiful sunset while on vacation last summer."

(a) an

(b) a

(c) the

(d) some

Q10. Fill in the blank with the most appropriate option.

"If I _____ known about the traffic, I would have left earlier."

(a) knows

(b) have

(c) had

(d) know

Q11. Fill in the blank with the most appropriate option.

"She's looking forward _____ _____ (meet) her friends at the party tonight."

(a) to, meet

(b) for, meeting

(c) to, meeting

(d) at, to meet

Q12. In the following question, out of the given alternatives, choose the best one which expresses the meaning of the given word.

Pensive

(a) Carefree

(b) Thoughtless

(c) Thoughtful

(d) Mindless

Q13. In the following question, out of the given alternatives, choose the best one which expresses the meaning of the given word.

Berated

(a) Admonished

(b) Advised

(c) Discussed

(d) Raised

Q14. In the following question, out of the given alternatives, choose the best one which expresses opposite the meaning of the given word.

Cumulous

(a) Fluffy

(b) Dissipating

(c) Transparent

(d) Delicate

Q15. In the following question, out of the given alternatives, choose the best one which expresses opposite the meaning of the given word.

Grouchy

(a) grumpy

(b) irritable

(c) content

(d) cranky

Q16. Select the most appropriate word from the options against ___X___.

The prison warden supervises all the operations ____X_____ the prison. Prisons vary in size, with some housing thousands of inmates. They are responsible for the prison's security, the performance of staff of the prison (including prison officers, prison doctors, janitors, cooks and others), the management of its funds, the _____Y_____ of its facilities and the welfare of its inmates. In practice, the day-to-day management of security is typically delegated to the head of security, who _____Z_____ an assistant or subordinate of the warden.

(a) within
(b) without
(c) for
(d) off

Q17. Select the most appropriate word from the options against ___Y___.

The prison warden supervises all the operations ____X_____ the prison. Prisons vary in size, with some housing thousands of inmates. They are responsible for the prison's security, the performance of staff of the prison (including prison officers, prison doctors, janitors, cooks and others), the management of its funds, the _____Y_____ of its facilities and the welfare of its inmates. In practice, the day-to-day management of security is typically delegated to the head of security, who _____Z_____ an assistant or subordinate of the warden.

(a) Subsidy
(b) Maintenance
(c) Controller
(d) Security

Q18. Select the most appropriate word from the options against ___Z___.

The prison warden supervises all the operations ____X_____ the prison. Prisons vary in size, with some housing thousands of inmates. They are responsible for the prison's security, the performance of staff of the prison (including prison officers, prison doctors, janitors, cooks and others), the management of its funds, the _____Y_____ of its facilities and the welfare of its inmates. In practice, the day-to-day management of security is typically delegated to the head of security, who _____Z_____ an assistant or subordinate of the warden.

(a) were
(b) shall
(c) can not
(d) will be

Q19. The given idiom is followed by four meanings. Choose the one which best expresses the meaning of the given idiom.

I will fight "tooth and nail" to get that money back for us.

(a) I will fight fiercely
(b) I will complete the work on time
(c) I will reject it completely
(d) I can not do it

Q20. Choose the option which best substitutes the given group of words.

Squirrels nest is called

(a) A ray

(b) A prey

(c) A drey

(d) A fray

Q21. The given idiom is followed by four meanings. Choose the one which best expresses the meaning of the given idiom.

"When the boss caught him stealing, he was **in hot water**."

(a) The boss was happy with him.

(b) The boss rewarded him for his hard work.

(c) The boss scolded or reprimanded him.

(d) The boss gave him a promotion.

Q22. In the following question there is a related pair of words given. Each pair is followed by four other pairs of words. Choose the pair from the given option the pair of words that best expresses the relationship like the original pair.

Burst: Pop

(a) Burn: Ignite

(b) Scatter: Gather

(c) Shatter: Break

(d) Erupt: Explode

Q23. In the following question there is a related pair of words given. Each pair is followed by four other pairs of words. Choose the pair from the given option the pair of words that best expresses the relationship like the original pair.

Fear: Frighten

(a) Dance: Jump

(b) Sleep: Dream

(c) Cower: Tremble

(d) Smile: Laugh

Q24. In the following question there is a related pair of words given. Each pair is followed by four other pairs of words. Choose the pair from the given option the pair of words that best expresses the relationship like the original pair.

Expand: Contract

(a) Increase: Decrease

(b) Strengthen: Weaken

(c) Extend: Shorten

(d) Elevate: Lower

Q25. The following question, consists of an incomplete sentence or a sentence which is split into four parts. All four parts are jumbled up and are named as P, Q, R and S. These four parts are not given in their proper order. Arrange the jumbled parts of the sentence and find out which of the four combinations from the given options will correctly complete the sentence.

P. working very well.

Q. that the rover movement

R. is happening and

S. Dr. Somanath confirmed

The correct sequence should be

(a) P R Q S

(b) Q S R P

(c) S Q R P

(d) P Q S R

Q26. The following question, consists of an incomplete sentence or a sentence which is split into four parts. All four parts are jumbled up and are named as P, Q, R and S. These four parts are not given in their proper order. Arrange the jumbled parts of the sentence and find out which of the four combinations from the given options will correctly complete the sentence.

P. to order another 90 Light Combat Aircraft (LCA)-

Q. MK1A once the contract for 83 LCA-MK1A

R. The Indian Air Force (IAF) is looking

S. is under execution, according to official sources.

The correct sequence should be

(a) R P Q S

(b) Q R P S

(c) S R P Q

(d) R S PQ

Q27. The following question, consists of an incomplete sentence or a sentence which is split into four parts. All four parts are jumbled up and are named as P, Q, R and S. These four parts are not given in their proper order. Arrange the jumbled parts of the sentence and find out which of the four combinations from the given options will correctly complete the sentence.

P. from doing something themselves

Q. or reading about it

R. People usually learn more

S. than by watching someone else.

The correct sequence should be

(a) R S Q P

(b) R P S Q

(c) P R Q S

(d) P R S Q

Q28. In the following question a sentence or a phrase is given which can be substituted by one word. Choose the most appropriate word explaining the sentence or the phrase from the given option.
Persistent in doing something despite difficulty; unwavering.
(a) Ambidextrous
(b) Omnivorous
(c) Perseverant
(d) Malevolent

Q29. In the following question a sentence or a phrase is given which can be substituted by one word. Choose the most appropriate word explaining the sentence or the phrase from the given option.
A member of a tribe that moves with its animals from place to place
(a) Pedestrian
(b) Equestrian
(c) Nomad
(d) Itinerant

Q30. In the following question a sentence or a phrase is given which can be substituted by one word. Choose the most appropriate word explaining the sentence or the phrase from the given option.
"A person who pretends to be what he/she is not"
(a) Extrovert
(b) Hypocrite
(c) Zealot
(d) Altruist

Q31. Which pair of country and capital, among the following is not correct?
(a) Congo- Kinshasa
(b) Algeria- Sofia
(c) Australia- Canberra
(d) Romania- Bucharest

Q32. Which article is related with Financial Emergency?
(a) Article 360
(b) Article 350
(c) Article 352
(d) None of the above

Q33. Which one of the following comes into Union Executive of India?
(a) The President
(b) The Vice-President
(c) The Attorney General for India
(d) All of the above

Q34. To which region is the Ghoomar folk dance related?
(a) Gujarat
(b) Uttar Pradesh
(c) Rajasthan
(d) Haryana

Q35. Who was the President of INC during Surat Split?
(a) Lala Lajpat Rai
(b) Rash Behari Ghosh
(c) Rajendra Prasad
(d) None of the above

Q36. Where did Gandhiji gave his first public appearance?
(a) Banaras Hindu University
(b) IGNOU
(c) Satyagraha
(d) None of the above

Q37. Which is the highest gallantry award which is awarded during peace time?
(a) Ashok Chakra
(b) Kirti Chakra
(c) Shaurya Chakra
(d) None of the above

Q38. New Zealand launched which medal to honour cricketers?
(a) The Debbie Hockley Medal
(b) The Shebbie Hockley Medal
(c) The Hockley Medal
(d) None of the above

Q39. Who was the first woman to receive a gallantry award in the IAF (Indian Air Force)?
(a) Avani Chaturvedi
(b) Deepika Misra
(c) Bhawana Kanth
(d) Kavita Desai

Q40. Booker prize is related with which of the following?
(a) Writings
(b) Sports
(c) Science & Technology
(d) Singing

Q41. Who among the following got Nobel Prize in Physics in 2022?
(a) Alain Aspect
(b) John F. Clauser
(c) Anton Zeilinger
(d) All of the above

Q42. What is Operation Karuna, an initiative taken by India?
(a) to rescue its citizens stranded in neighboring countries of Ukraine during the 2022 Russian invasion
(b) to remove Sikh militant from the buildings of the Golden Temple
(c) to evacuate Indian citizens and foreign nationals from Sudan during the 2023 Sudan conflict
(d) to assist those affected by Cyclone Mocha in Myanmar

Q43. Green ring in Olympic logo represents?
(a) Europe
(b) Asia
(c) Africa
(d) Oceania

Q44. Which of the following is a FIRE & FORGET missile?
(a) HELINA
(b) Trishul
(c) Agni
(d) Aakash

Q45. Which Airline is a joint venture of Singapore airlines and Tata & Sons?
(a) Indigo
(b) Vistara
(c) Spicejet
(d) Delta

Q46. Maximum density of water is at?
(a) 4 degree Celsius
(b) 0 degree Celsius
(c) 100 degree Celsius
(d) 14 degree celsius

Q47. Where is Memorial Human Rights Organization situated?
(a) Finland
(b) Russia
(c) Algeria
(d) USA

Q48. Who wrote the book "Time Shelter" that won the International Booker Prize? A:
(a) Georgi Gospodinov
(b) R. Mendeleev
(c) Sichelle Michael
(d) Robert Georgiva

Q49. Which sport made its debut in the Commonwealth Games at Gold Coast 2018?
(a) Beach volleyball
(b) Beach Cricket
(c) Beach Badminton
(d) Hockey

Q50. Where is the High Altitude Warfare School located?
(a) Pathankot
(b) Gulmarg
(c) Srinagar
(d) Shimla

Q51. What is Kavach?
(a) Train Protection System
(b) Aeroplane Protection System
(c) Three-Wheeler Protection System
(d) None of the above

Q52. In which atmospheric layer do most weather changes occur?
(a) Troposphere
(b) Sratosphere
(c) Thermosphere
(d) Exosphere

Q53. Who developed the airborne early warning and control (AEW&C) system?
(a) ISRO
(b) BRO
(c) BEL
(d) DRDO

Q54. Who is the Chief Minister of Manipur?
(a) Nongthombam Biren Singh
(b) Manohar Lal Khatter
(c) Banwari lal Purohit
(d) None of the above

Q55. What is the motto of the CBI (Central Bureau of Investigation)?
(a) Industry, Impartiality, and Integrity.
(b) Impartiality, and Integrity
(c) Partiality, and Integrity
(d) Always Alert

Q56. If $27^{2n-1} = 243$ then what is value of n ?
(a) 0
(b) 4/3
(c) 3/5
(d) 6

Q57. In a hostel the rent per room is increased by 20%. If number of rooms in the hostel is also increased by 20% and the hostel is always full, then what is the percentage change in the total collection at the cash counter?
(a) 30%
(b) 40%
(c) 44%
(d) 48%

Q58. A bag contains 5 red and 3 green balls. Another bag contains 4 red and 6 green balls. If one ball is drawn from each bag. Find the probability that one ball is red and one is green.
(a) 17/20
(b) 21/20
(c) 21/40
(d) 9/10

Q59. The difference between the compound interest (compounded annually) and simple interest on a sum of money deposited for 2 years at 5% per annum is Rs. 15. What is the sum of money deposited?
(a) Rs. 6,000
(b) Rs. 4,800
(c) Rs. 3,600
(d) Rs. 2,400

Q60. A man cycles with a speed of 10 kmph and reaches his office at 1 p.m. However, when he cycles with a speed of 15 kmph, he reaches his office at 11 a.m. At what speed should he cycle so that he reaches his office at 12 noon?
(a) 12.5 kmph
(b) 12 kmph
(c) 13 kmph
(d) 13.5 kmph

Q61. What is the area of a circle whose area is equal to that of a triangle with sides 7 cm, 24 cm and 25 cm?
(a) 80 cm²
(b) 84 cm²
(c) 88 cm²
(d) 90 cm²

Q62. The sides of a right-angled triangle are equal to three consecutive numbers expressed in centimeters. What can be the area of such a triangle?
(a) 6 cm²
(b) 8 cm²
(c) 10 cm²
(d) 12 cm²

Q63. Two chairs and one table cost Rs 700 and 1 chair and 2 tables cost Rs 800. If the cost of m tables and m chairs is Rs 30,000, then what is m equal to?
(a) 60
(b) 55
(c) 50
(d) 45

Q64. 8L Cold drink was added to a 20L mixture of water and alcohol such that the ratio of alcohol to that of cold drink and water is 1 : 3. Find the amount of alcohol in the solution.
(a) 4L
(b) 5L
(c) 7L
(d) 9L

Q65. The average age of a group of persons going for a picnic is 17.75 years. 12 new persons with an average age of 14.25 years join them due to which the average age of group becomes 16 years. Find the number of persons initially.
(a) 11
(b) 12
(c) 14
(d) 10

Q66. The ratio of speeds of a motor boat to that of current is 5:1. The motor boat goes along with the current in 6hr. Find the time to come back of motor boat.
(a) 7.5 hr.
(b) 8 hr.
(c) 6 hr.
(d) 9 hr.

Q67. On selling an article for Rs 600. The loss accrued is 25%. To make of 20% profit, the article must be sold at?
(a) Rs 1080
(b) Rs 880
(c) Rs 960
(d) Rs 1040

Q68. Arun bought a scooter for a certain sum of money. He spends 20% of cost price on repair and sold it for a profit of 25% at Rs 30000. What is C.P. of scooter?
(a) Rs 20000
(b) Rs 18750
(c) Rs 22500
(d) Rs 19500

Q69. Population of Delhi increases 12% every year. If the current population of Delhi is 15680, then what was its population 2 years ago.
(a) 1250
(b) 125000
(c) 12500
(d) 12050

Q70. A positive number, when increased by 10, equals 200 times it reciprocal. What is that number?
(a) 100
(b) 10
(c) 20
(d) 200

Q71. The present age of Ravi's father is four times Ravi's present age. Five years back he was seven times as old as Ravi was at that time. What is the present age of Ravi's father?
(a) 84 years
(b) 70 years
(c) 40 years
(d) 35 years

Q72. If $x^2 = 6 + \sqrt{6 + \sqrt{6 + \sqrt{6 + \cdots \infty}}}$ then what is one of the values of x equal to ?
(a) 6
(b) 5
(c) 4
(d) 3

Q73. In an examination, a student was asked to find 3/14 of a certain number. By mistake, he found 3/4 of it. His answer was 150 more than the correct answer. Find the number.
(a) 180
(b) 280
(c) 380
(d) 480

Q74. A worker may claim Rs. 1.5 for each km which he travels by taxi and 50 paise for each km he drives his own car. If in one week he claimed Rs. 50 for travelling 80 km, how many kms did he travel by taxi?
(a) 20 km
(b) 14 km
(c) 12 km
(d) 10 km

Q75. A can do a piece of work in 10 days. He works at it for 4 days and then B finishes it in 9 days, in how many days can A and B together finish the work?
(a) 6 days
(b) 8 days
(c) 8 ½ days
(d) 7 ½ days

Q76. In each of the following questions, four words have been given out of which three are alike in same manner, while the fourth one is different. Choose the word which is different from the rest.
(a) Quay
(b) Deck
(c) Stern
(d) Bow

Q77. In each of the following questions, four words have been given out of which three are alike in same manner, while the fourth one is different. Choose the word which is different from the rest.
(a) Algeria
(b) Barbados
(c) San Jose
(d) Cambodia

Q78. In the following questions, select the related word from the given alternatives.
Square : 90° :: Equilateral triangle: ?
(a) 30°
(b) 60°
(c) 90°
(d) 120°

Q79. In the following questions, select the related word from the given alternatives.

11 : 121: : 17 : ?
(a) 256
(b) 389
(c) 289
(d) 461

Q80. In a certain code language, ''BIOLOGY'' is written as ''YRLOLTB''. How is ''PHYSICS'' written in that code language?
(a) KSXRBHH
(b) KSBHRXH
(c) XHRHBSK
(d) KSBHXRH

Q81. In a certain code language, "FUNGI" is written as "HYPKK". How is "ALGAE'' written in that code language?
(a) CPIEG
(b) GHIQT
(c) QKTHP
(d) PHQLM

Q82. In a row of people, Manu is 7th from bottom end of row. Shrey is 10 ranks above Manu. If Shrey is 8th from top end, then how many. people are there in this row?
(a) 25
(b) 26
(c) 24
(d) 23

Q83. Meetu's birthday is on Wednesday 8th March. On what day of the week will be Ritu's birthday in the same year if Ritu was born on 10th July ?
(a) Monday
(b) Wednesday
(c) Friday
(d) Saturday

Q84. Two women A and B are shopping in a mall. They start from the same point. A walks 150 m West, then turns to her left and walks 160 m. B walks 140 m East, then turns South and walks 160 m. then turns to her left and walks 120 m. Where is B with respect to A now?
(a) 410 m West
(b) 410 m East
(c) 170 m East
(d) 170 m West

Q85. Two planes start from the same airport. A flies 50 km East. B flies 15 km North, then turns East and flies 20 km, then turns to its right and flies 15 km. Where is B with respect to A now?
(a) 30 km East
(b) 70 km East
(c) 30 km West
(d) 70 km West

Q86. In a certain code language, '×' represents '+', '÷' represents '×', '−' represents '÷' and '+' represents '−'. Find out the answer to the following question.
4 × 18 ÷ 5 − 10 + 8 = ?
(a) 35
(b) 22
(c) 5
(d) 42

Q87. In a certain code language, '÷' represents '+', '−' represents '×', '+' represents '÷' and '×' represents '−'. Find out the answer to the following question.
9 ÷ 4 − 30 + 10 × 13 = ?
(a) 46
(b) 8
(c) 30
(d) 49

Q88. If you are getting 7:35, then what will be the measure of an angle between the hour and minute hands of a clock in this situation?
(a) $47\frac{1}{2}^\circ$
(b) $37\frac{1}{2}^\circ$
(c) $17\frac{1}{2}^\circ$
(d) $18\frac{1}{2}^\circ$

Q89. A woman was going somewhere with a boy, on the way she met a man who asked that lady, "Who is that boy?". In reply to this, the woman said "My maternal uncle's maternal uncle and his maternal uncle are brothers". What was the relation of that woman to the boy?
(a) Sister-in-law and brother -in-law
(b) Mother and son
(c) Wife and husband
(d) None of the above

Q90. If Mohini says that, "Rajeev's father is the only son of my father". Then what is the relation of Mohini to Rajeev?
(a) Daughter
(b) Sister
(c) Mother
(d) None of these

Q91. In each of the following questions, some figures are similar on the basis of one property and one is different. Select this different figure.
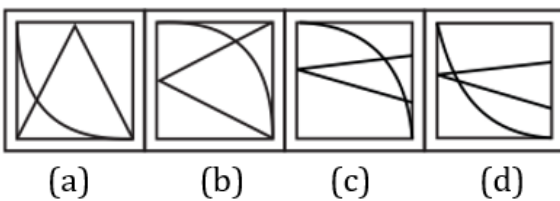

(a)   (b)   (c)   (d)
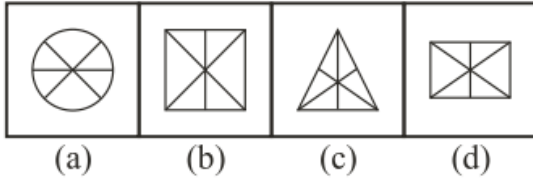
(a) A

(b) B

(c) C

(d) D

Q92. In each of the following questions, some figures are similar on the basis of one property and one is different. Select this different figure.
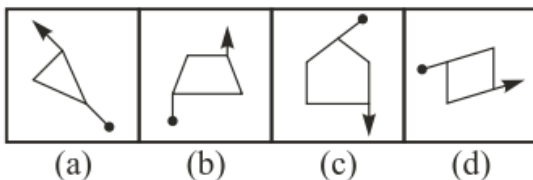
(a)   (b)   (c)   (d)

(a) A

(b) B

(c) C

(d) D

Q93. Which answer figure will complete the pattern in the question figure?

Question Figure
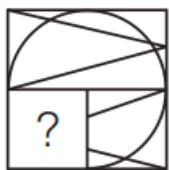
Answer Figures

(a)   (b)   (c)   (d)

(a) A

(b) B

(c) C

(d) D

Q94. Which answer figure will complete the pattern in the question figure?
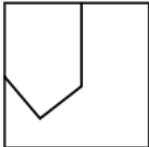**Question Figure**
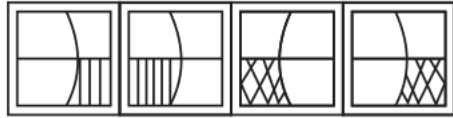
Answer Figures

   (a)   (b)   (c)   (d)

(a) A
(b) B
(c) C
(d) D

Q95. From the given answer figures, select the one in which the question figure is hidden/embedded.
Question Figure
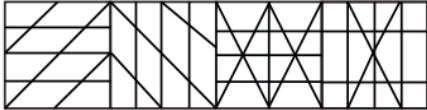
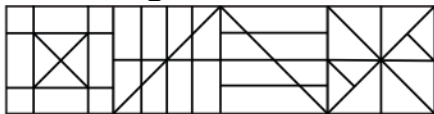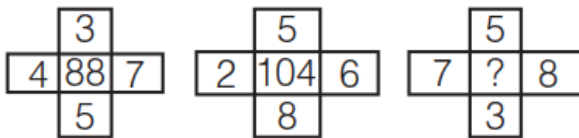**Answer Figures**

   (a)   (b)   (c)   (d)

(a) A
(b) B
(c) C
(d) D

Q96. From the given answer figures, select the one in which the question figure is hidden/embedded.
Question Figure

Answer Figures

   (a)   (b)   (c)   (d)

(a) A
(b) B
(c) C
(d) D

Q97. Which number will complete the pattern in the question figure?

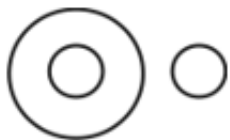| 12	13	156
14	?	154
15	13	195

(a) 11

(b) 16

(c) 21

(d) 31

Q98. Which number will complete the pattern in the question figure?

(a) 108

(b) 112

(c) 118

(d) 120

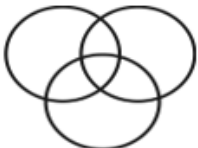**Q99.** Which of the following diagrams indicates the best relation between Jaisalmer, Jaipur and Rajasthan
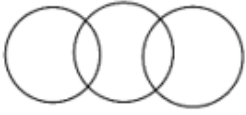
(a)

(b)

(c)

(d)

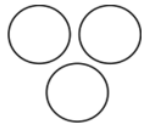**Q100.** Which of the following diagrams indicates the best relation between SUN, PLANET and MOON?

(a)

(b)

(c)

(d)