

Qn. Booklet No:

24022

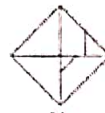
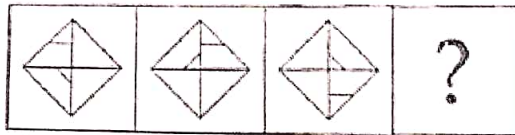
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INSTRUCTIONS TO CANDIDATES

1. Fill in the OMR sheet carefully as per the instructions given on the back of the OMR Sheet / Admit Card. OMR sheet not correctly filled in will not be valued.
2. Write your Roll Number (all eight digits) and Version as A on the Question Booklet and on the left hand side of the OMR sheet (basic data part).
3. The examination consists of 100 Objective type multiple choice questions, which are to be answered in 100 minutes.
4. After opening the Question Booklet ensure that there are 100 Questions and that the printing of all the questions are legible. If there are any missing or illegibly printed questions, the matter may be reported to the Invigilator immediately.
5. There are 4 options (A, B, C & D) for each objective type question. Mark the most appropriate answer to each question by blackening fully the corresponding bubble in the OMR sheet with a black/blue ink ball point pen. **For every correct answer 1 mark will be awarded. No deduction of mark will be made for incorrect answer and unanswered questions.** Marking of more than one bubble against a question number in the OMR sheet shall be considered as an incorrect answer. Erasing, overwriting, partial marking, etc. shall also be treated as incorrect answer.
6. Rough work and calculations can be made in the blank pages attached to the question booklet. Watch, Calculator, Mobile phone, Electronic instruments etc. shall not be allowed in the examination hall.
7. The OMR Sheet and the Hall Ticket should be returned to the Invigilator. The Counterfoil of the Hall Ticket and Question Booklet and Candidates copy of the OMR answer sheet can be retained by the candidate after the examination.
8. Answer keys will be published in the website www.lbscentre.kerala.gov.in after the examination. Complaints, if any, from the candidates regarding the questions, responses / probable answer may be sent to the Email id ddcc.lbs@kerala.gov.in before 5.00 p.m. within three calendar days from the date of publication of the answer keys. Complaints not substantiated with supporting documents will not be considered. However the decision of the experts regarding such complaints on the answer keys shall be final.
9. The Answer sheet of candidates who indulge in malpractice in any form shall not be valued.
10. The candidates will be allowed to leave the hall only after the completion of the examination time and after handing over the Answer sheet to the Invigilator.

1. Which figure comes next?



A)



B)

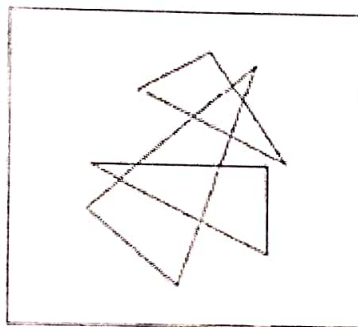


C)



D)

2. Find out the shape which is hidden in the given figure.



A)



B)



C)



D)

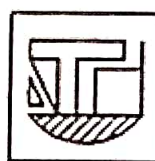
3. In pigment colours, if Green is Blue, Yellow is Green, Blue is White and Red is Yellow, the complementary color of White and Green is:

A) Green B) Red C) Orange D) Purple

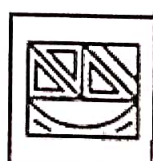
4. Find out the alternative figure which contains figure (X) as its part.



(X)



A)



B)



C)



D)

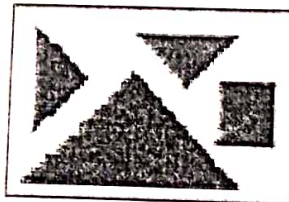
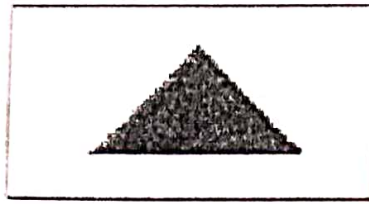
5. The first step in design thinking process is:

A) Define B) Empathise C) Prototype D) Ideate

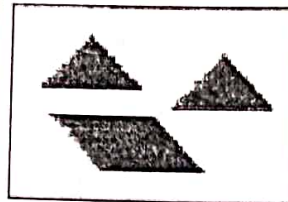
6. A rectangular floor of dimensions 72 ft x 48 ft has to be covered with square tiles. What is the minimum number of maximum size square tiles required? (Assume that all tiles are of the same integral dimensions)

A) 5 B) 4 C) 8 D) 6

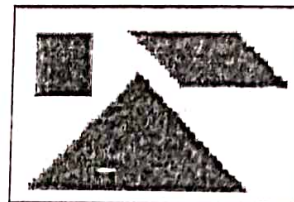
7. Which group of shapes can be assembled to make the shape shown?



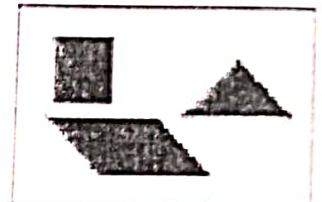
A)



B)



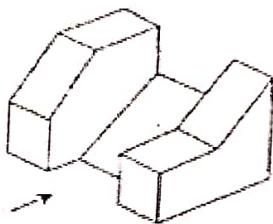
C)



D)

8. A heptagon is a two dimensional polygon having ----- angles.
A) 6 B) 7 C) 8 D) 9

9. Identify the correct view of the given object from the side indicated by arrow.



A)



B)



C)



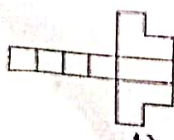
D)

10. Prototypes are created:
A) To maximize the profit for any company
B) For visualising and testing the designs functionality
C) To manufacture different products for an industry
D) None of these

11. Identify the correct shapes from the given figures from which the figure (X) can be developed.



(X)



A)



B)

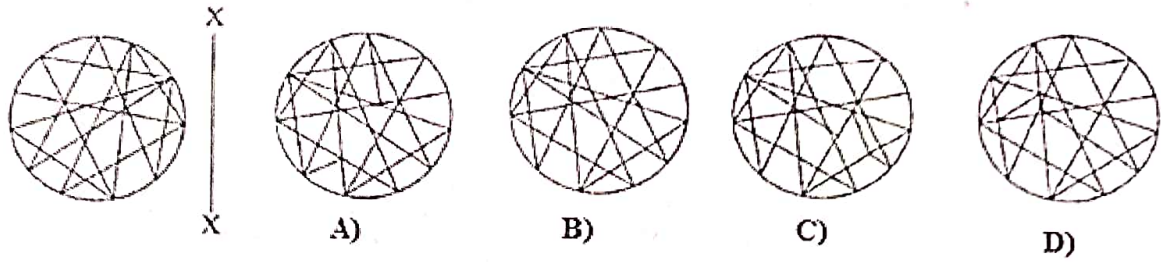


C)



D)

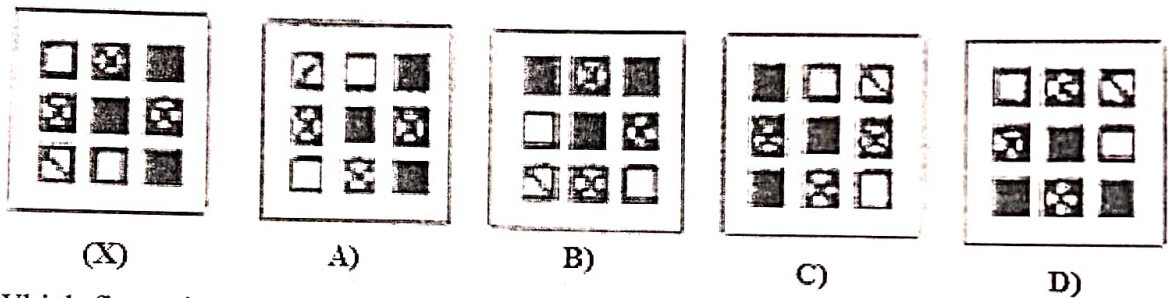
12. Find the exact mirror image of the question figures with respect to the X-X axis shown.



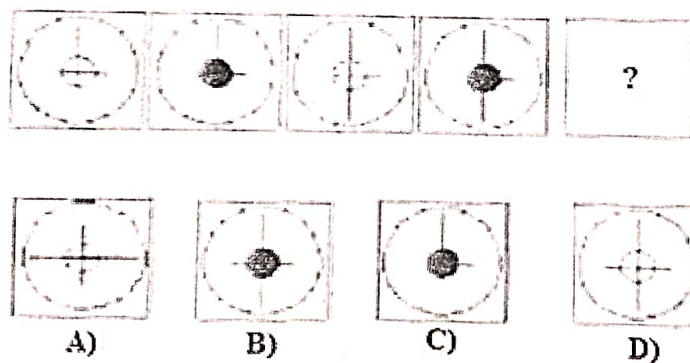
13. The design principle which focuses on the environmental impact of a product throughout its life cycle:

A) Sustainability B) Utility
C) Impressiveness D) Specification

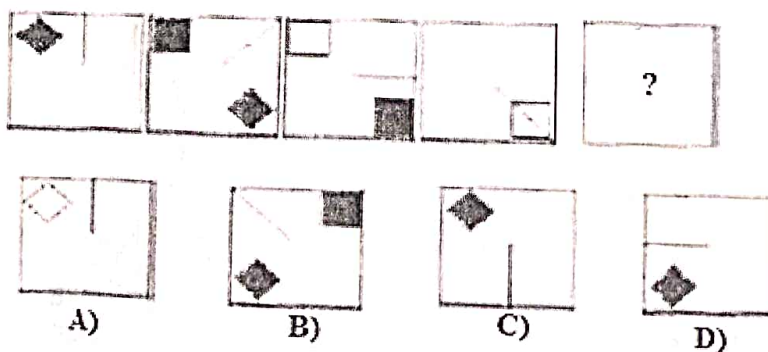
14. Which figure is identical to figure (X)?



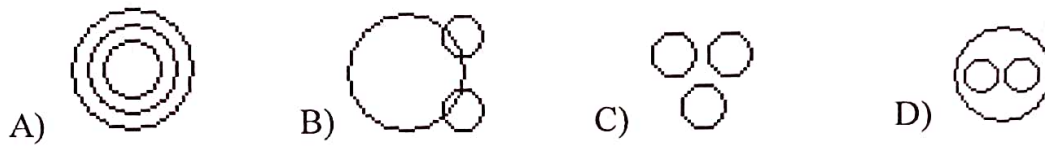
15. Which figure is next in the sequence?



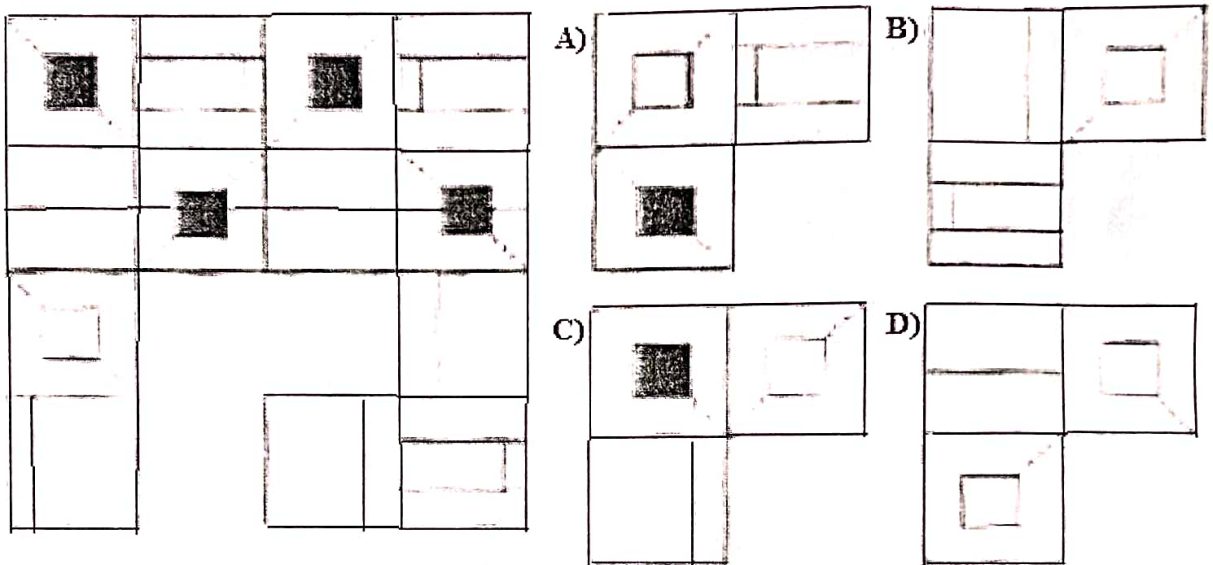
16. Which figure is next in the sequence?



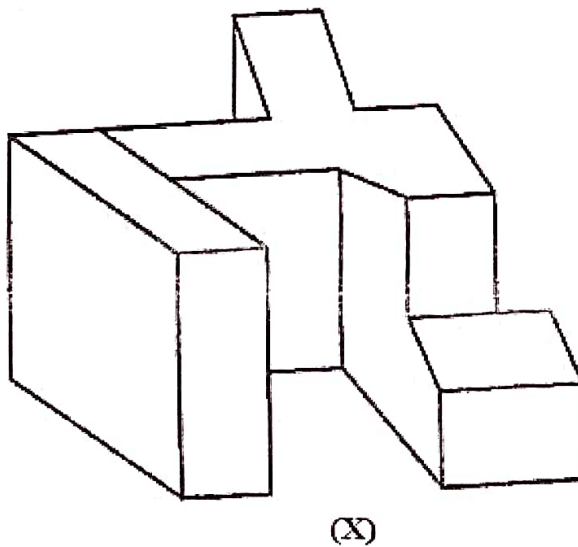
17. Which of the following diagrams indicates the best relationship between factory, product and machinery?



18. Which figure completes the statement?

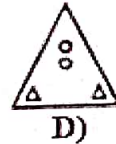
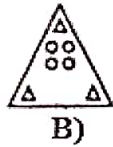
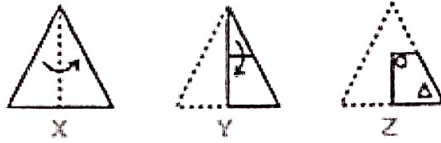


19. Find out the total number of faces of the solid in the figure (X).



- A) 16 B) 22 C) 15 D) 20

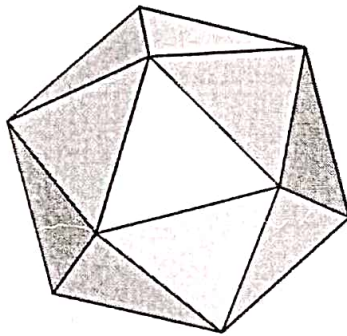
20. Choose a figure which would most closely resemble the unfolded form of Figure (Z).



21. A large cube is formed from the material obtained by melting three smaller cubes of 3, 4 and 5 cm side. What is the ratio of the total surface areas of the smaller cubes and the large cube?

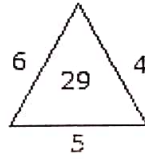
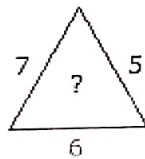
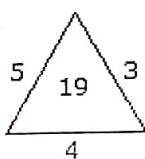
A) 2:1 B) 3:2 C) 25:18 D) 27:20

22. How many faces does an icosahedron have?



A) 20 B) 28 C) 30 D) 15

23. Which one will replace the question mark?

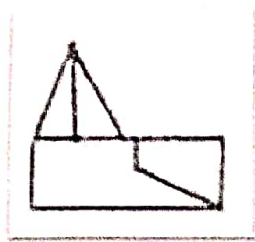


A) 25 B) 37 C) 41 D) 47

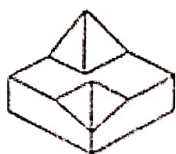
24. A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?

A) 2.91 m B) 3 m C) 5.82 m D) 4.2 m

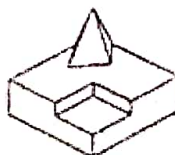
25. Which figure has the same front view as the figure (X)?



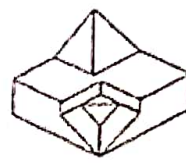
(X)



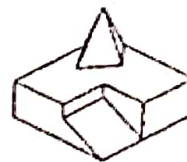
A)



B)



C)



D)

26. Match the following List I with List II:

List I	List II
a. Canara Bank	1.
b. Hero	2.
c. Meta	3.
d. Bajaj	4.

- A) a-3, b-2, c-4, d-1 B) a-2, b-3, c-4, d-1
 C) a-2, b-3, c-1, d-4 D) a-4, b-2, c-3, d-1
27. The largest rock cut temple in India:
 A) Varaha Cave Temple, Mahabalipuram
 B) Masrur Rock cut Temples, Himachal Pradesh
 C) Kailasa Temple, Ellora
 D) Amarnath Temple, Kashmir
28. The architect of the New Parliament House (Sansad Bhavan) at New Delhi:
 A) Sunitha kohli B) Bimal Patel
 C) Rahul Mehrotra D) Chandrakant Somputra
29. India's first design school, the National Institute of Design is located in:
 A) Mumbai B) Pune
 C) Ahmadabad D) Kolkatha

30. How many colors are used in the design of the current 'Google' logo?
 A) 3 B) 4 C) 5 D) 6
31. Mattancherry Palace popularly known as the Dutch Palace in Kochi was built by the:
 A) Dutch B) French
 C) Portuguese D) King Ramavarma
32. Youngest Indian to scale Mount Everest from the Nepal Side, recently in the news:
 A) Malavath Poorna B) Kaamya Karthikeyan
 C) Priya Saroj D) Chandrani Murmu
33. The river that was once known as 'English Channel of India':
 A) Kaveri B) Mayyazhi C) Kabani D) Periyar
34. Who among the following recently became the first Asian to be nominated for 'International Tennis Hall of Fame'?
 A) Leander Paes B) Mahesh Bhupati
 C) Rohan Bopanna D) Yuki Bhambhri
35. The French revolution took place during the reign of:
 A) King Louis II B) King Louis III
 C) King Louis IV D) King Louis XVI
36. Who was called the pioneer of the Panchayati Raj for introducing Local Self-Government in British India?
 A) Warren Hastings B) Lord William Bentick
 C) Lord Canning D) Lord Rippon
37. The year known as 'Year of Great Divide' regarding population:
 A) 1911 B) 1921 C) 1931 D) 1941
38. The United Nations University is situated in:
 A) Geneva B) New York C) Paris D) Tokyo
39. When electron travels in a magnetic field, its:
 A) Energy increases B) Energy and velocity increases
 C) Velocity decreases D) Energy and velocity do not change
40. Vulcanising is the process of heating rubber with:
 A) Phosphorus B) Nitrogen
 C) Sulphur D) Peroxide Compound
41. In brain, the site for intelligence, memory and emotion is present in:
 A) Cerebrum B) Cerebellum
 C) Medulla D) Hypothalamus

42. Which non-metallic mineral is called 'Mother of Industry'?
 A) Mica B) Coal C) Gypsum D) Limestone
43. Antigen is a substance which:
 A) Lowers body temperature
 B) Destroys harmful bacteria
 C) Triggers the immune system
 D) Is used as an antidote to poison
44. The author of 'Before Memory Fades':
 A) Soli Sorabjee B) V R Krishna Iyer
 C) Fali S Nariman D) N A Palkiwala
45. The winner of Asian Cup Football in 2024:
 A) Qatar B) Jordan C) UAE D) India
46. World's tallest statue of Dr. B R Ambedkar is situated in:
 A) Washington B) Vijayawada
 C) Cape Town D) Mumbai
47. 'Parakram Diwas' is celebrated on 23rd January which falls on the birth anniversary of:
 A) Sardar Patel B) C Rajagopalachari
 C) Lala Lajpat Rai D) Subash Chandra Bose
48. Thermos Flask was invented by:
 A) Volta B) Colt C) Dewar D) Davy
49. The first country to establish Green Tribunal to deal with environmental issues:
 A) Australia B) India C) Sweden D) New Zealand
50. Author of 'A Bunch of old Letters':
 A) K M Munshi B) Louis Fischer
 C) Jawaharlal Nehru D) Indira Gandhi
51. The first Wetland city of India as per Ramsar Convention is:
 A) Raipur B) Udaipur C) Ajmir D) Jabalpur
52. The festival 'Vaisakhi' is celebrated in the state of:
 A) Telengana B) Karnataka C) Tamil Nadu D) Punjab
53. Which of the following is **not** a biodiversity hotspot?
 A) The Western Ghats B) Vindhya and Satpura Range
 C) The Himalayas D) The Nicobar group of Islands

54. The 20th Asian Games in 2026 will be held in:
A) Jakarta B) Manila C) Seoul D) Nagoya
55. Who of the following is related to 'Narmada Bachao Andolan'?
A) Ela Bhatt B) Sundal Lal Bahuguna
C) Medha Patker D) Anna Hazare
56. The first country in the world that passed Right to Information Act:
A) Sweden B) Norway C) Britain D) Ireland
57. The headquarters of Kerala Chalachithra Academy is in:
A) Kozhikode B) Thiruvananthapuram
C) Thrissur D) Ernakulam
58. Which of the following is known as 'Youth Hormone'?
A) Adrinalin B) Vasopracin C) Insulin D) Thymocin
59. Which one of the following animals is found only in Western Ghats?
A) Barking Deer B) Sloth Bear
C) Malabar Grey Hornbill D) Wild Buffalo
60. The department of Space notified National science Day on:
A) 21st August B) 22nd August C) 23rd August D) 24th August

Questions 61-70. Read the passage and choose the most appropriate answer from the options provided.

Eva Sonaike's passion for interiors began with her childhood doll's house. 'I remember the delight I got from playing with it, making little items of furniture, furnishings from old curtains and wallpaper from magazine cuttings,' says the designer from her north London studio. Today, she finds a similar happiness in decorating spaces in her distinct style, which combines different aspects of her heritage. Born and raised in south Germany by Nigerian parents, she is drawn to the brightly patterned textiles prevalent in West Africa, as well as the mid-century European furniture she grew up with.

Sonaike moved to England to study at the London College of Fashion in the late Nineties, after which she took a job as a fashion editor and the UK correspondent for German *Elle*, 'but I never felt satisfied in terms of my creative output', she says.

She found her professional calling while on maternity leave in 2007, as she sought to decorate her house with luxury pieces that reminded her of home. 'Nothing seemed representative of who I was,' she explains, 'so I took things into my own hands and created a small collection of African-style cushions.'

With the help of a manufacturer in east London, Sonaike produced a handful of designs in multiple colourways. When she showed them to a buyer for Selfridges, they immediately put in an order – with Liberty and Fenwick following soon after. ‘That was my entry into the homeware world. It opened all the doors and gave me the confidence that there was a market for my work.’

She launched her brand in 2009 with a range of digitally printed cushions, rugs, pouffes, lamps and wallpapers inspired by various places in West Africa.

61. An appropriate title for the passage:
 A) From Africa to Germany B) From Germany to London
 C) Finding One’s Passion D) Finding One’s Calling
62. Sonaike’s first designs were for her:
 A) North London studio B) Nigerian parents
 C) South German locale D) Miniature toy home
63. Her first creations were made from:
 A) Scrap B) Scarves C) Interiors D) Exteriors
64. Her style appears to be a ----- of European and African elements.
 A) bland B) blend C) brand D) blind
65. Bright patterns for textiles are a/an ----- feature.
 A) Nigerian B) German C) European D) African
66. Sonaike’s stint in the print media did nothing to -----her creativity.
 A) spur B) spar C) spell D) spill
67. While on leave, she discovered her true-----.
 A) vacation B) vocation C) avocation D) advocacy
68. Thinking of home, she returned to her:
 A) roots B) routes C) recruits D) reserves
69. Homeware refers to -----.
 A) home attire B) home software
 C) home objects D) home rules
70. Around a decade after her studies, Sonaike set out as a/an -----.
 A) editor B) grandeur C) brander D) entrepreneur

Questions 71- 73. Fill in the blanks with the correct option:

71. Complete the maxim, ‘Two ----- do not make a right.’
 A) lefts B) sins C) fights D) wrongs

72. I heard her ----- down the stairs.
A) goes B) going C) gone D) went
73. The baby elephant -----two hundred pounds.
A) weight B) weighing C) weighs D) weights
74. The sentence below is in three parts, A, B and C. Indicate which of these parts contains an error or choose 'D' to indicate that there is no error in it.
I gave him a ten-rupees note.
 A B C D (No error)
75. The phrase, 'to buy a pig in a poke' means to:
A) Neglect due diligence before a purchase
B) Pay an exorbitant price
C) Damage a product before purchase
D) Gain an unsuitable prize
76. Rearrange the sentences numbered 1-4 in the logical order of a paragraph:
1. What had woken me up?
2. Through the window I could still see the moon in the western sky.
3. The air was quite cold and still, and there was no sound to be heard.
4. Probably the crochet needle I was working with had slipped again from my fingers.
A) 3, 2, 1, 4 B) 1, 4, 3, 2 C) 2, 1, 3, 4 D) 1, 4, 2, 3
77. Pick the word that is spelt incorrectly:
A) cur B) incur C) interfere D) intresting
78. Do you -----the smell of alcohol?
A) find B) mind C) feel D) peek
79. Which word is inappropriate in combination with 'off'?
A) check B) round C) write D) speak
80. Pick the word opposite in meaning to 'indifferent.'
A) heedful B) needful C) unlike D) unlike
81. What is the remainder obtained on dividing $179^3 + 730^3$ by 9?
A) 8 B) 2 C) 1 D) 0
82. The monthly incomes of A and B are in the ratio 4:5 and their monthly expenditures are in the ratio 3:4 respectively. If each save Rs. 100 per month, the monthly incomes of A and B are respectively:
A) (240, 300) B) (320, 400) C) (400, 500) D) (440, 550)

83. If $x^2\sqrt{x} = 32$, then what is the value of x ?
 A) 3 B) 2 C) 4 D) 5
84. The value of $[(8^2 + 8^2 \div 4^3 \times 4^2)]^{0.5}$ is:
 A) $3\sqrt{5}$ B) $4\sqrt{5}$ C) 8 D) 0.354
85. If X and Y are integers and $\sqrt{XY} = 12$, then, which of the following cannot be the value of $X+Y$?
 A) 30 B) 24 C) 36 D) 40
86. The last digit of 1577^{645} is:
 A) 7 B) 9 C) 1 D) 3
87. A person spent 75% of his monthly income for family expenditure, 60% of the remaining income towards the payment of loan and keeps Rs. 6500 with him. Then what is his monthly income?
 A) Rs. 76500 B) Rs. 71000 C) Rs. 66500 D) Rs. 65000
88. $111.1 \times 11.11 \times 0.001 = \text{-----}$.
 A) 0.11111111 B) 1.234321 C) 123.4321 D) 12.34321
89. The value of a machine depreciates at the rate of 10% after every year. What was its cost price if at the end of three years its value is Rs. 11664?
 A) Rs. 16000 B) Rs. 14000 C) Rs. 18000 D) Rs. 15860
90. The highest common factor of $\frac{5}{12}, \frac{4}{6}, \frac{8}{9}$ is:
 A) $\frac{10}{9}$ B) $\frac{40}{3}$ C) $\frac{1}{36}$ D) $\frac{17}{21}$
91. The sum of 10 values is 50. If 5 is subtracted from all of these values, the mean of the deviations will be:
 A) 4.5 B) 4 C) 1 D) 0
92. In an examination a student answered 15 of the first 20 questions correctly. Of the remaining questions, he answered one-third correctly. If all the questions have same mark and the student scored 50% marks, how many questions were there in the question paper?
 A) 50 B) 60 C) 80 D) 100

93. The value of $0.00125 \times 8 \times 2500 \div 0.01 = \text{-----}$.
- A) 1250 B) 2500 C) 250 D) 25
94. A tank contains a mixture of two liquids L_1 and L_2 in the ratio 9:5. If 7 litres of liquid L_1 drawn off, the ratio of L_1 to L_2 becomes 4:3. Then the quantity of liquid L_1 initially was:
- A) 36 litres B) 45 litres C) 27 litres D) 18 litres
95. How many kilograms of a fertilizer costing Rs. 15/kg must be mixed with 25kg of another fertilizer costing Rs.20/kg so that there may be a gain of 10% by selling the mixture at Rs.19/kg?
- A) 20kg B) 25kg C) 26kg D) 30kg
96. 'A' can complete a work in half the time it is completed by 'B' and together they finish the same work in 16 days. In how many days will 'A' alone finish the work?
- A) 12 days B) 24 days C) 18 days D) 32 days
97. A train when moves at an average speed of 60 kmph, reaches its destination on time. When its average speed becomes 40 kmph, then it reaches its destination 15 minutes late. The length of the journey is:
- A) 60 km B) 50 km C) 45 km D) 30km
98. Complete the series 3,15,_, 63, 99.
- A) 32 B) 35 C) 37 D) 48
99. A shop owner sells an item for Rs. 96. If his profit percentage is equal to the cost of the item, then, the cost of the item is Rupees:
- A) 60 B) 70 C) 80 D) 66
100. At present, the age of father is twice the age of son. Twenty years ago, the father was thrice as old as the son. The present age of the son is:
- A) 40 years B) 80 years C) 30 years D) 60 years
-