

Qn. Booklet No:

24022

Roll Number:

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INSTRUCTIONS TO CANDIDATES

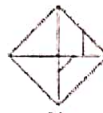
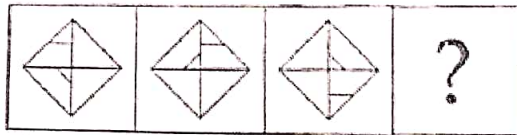
1. Fill in the OMR sheet carefully as per the instructions given on the back of the OMR Sheet / Admit Card. OMR sheet not correctly filled in will not be valued.
2. Write your Roll Number (all eight digits) and Version as A on the Question Booklet and on the left hand side of the OMR sheet (basic data 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.

A

24022

100 MINUTES

1. Which figure comes next?



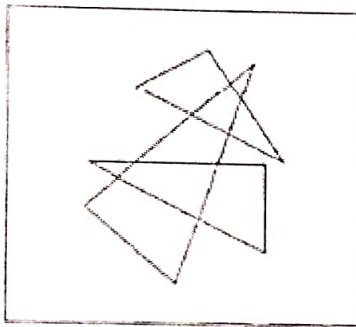
A)

B)

C)

D)

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



A)

B)

C)

D)

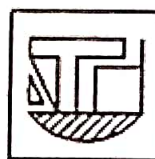
3. In pigment colours, if Green is Blue, Yellow is Green, Blue is White and Red is Yellow, the complementary color of White and Green is:

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

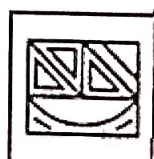
4. Find out the alternative figure which contains figure (X) as its part.



(X)



A)



B)



C)



D)

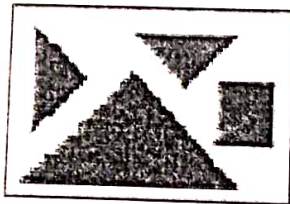
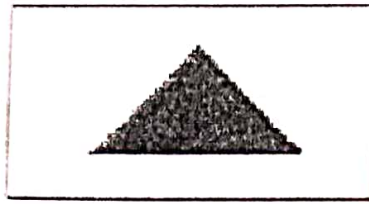
5. The first step in design thinking process is:

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

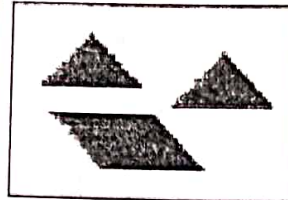
6. A rectangular floor of dimensions 72 ft x 48 ft has to be covered with square tiles. What is the minimum number of maximum size square tiles required? (Assume that all tiles are of the same integral dimensions)

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

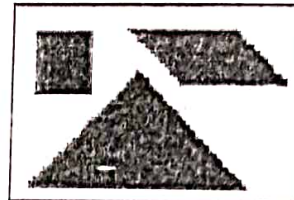
7. Which group of shapes can be assembled to make the shape shown?



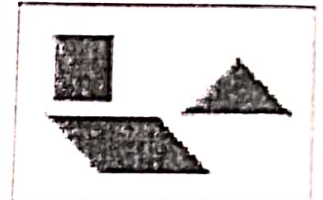
A)



B)



C)



D)

8. A heptagon is a two dimensional polygon having ----- angles.

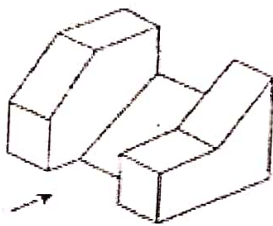
A) 6

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

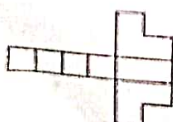
C) To manufacture different products for an industry

D) None of these

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



(X)



A)



B)

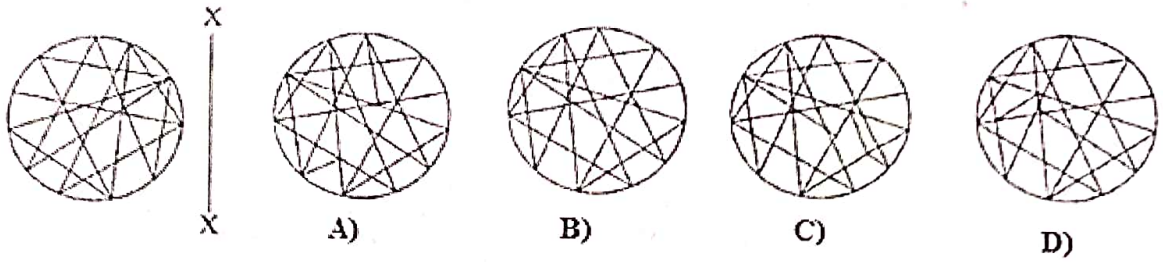


C)



D)

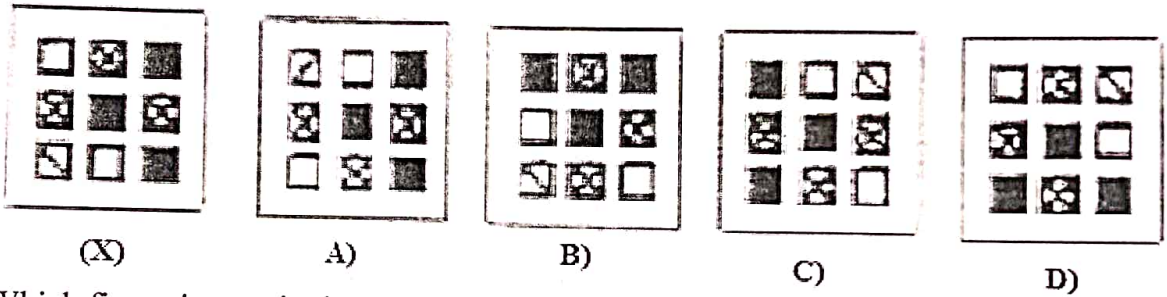
12. Find the exact mirror image of the question figures with respect to the X-X axis shown.



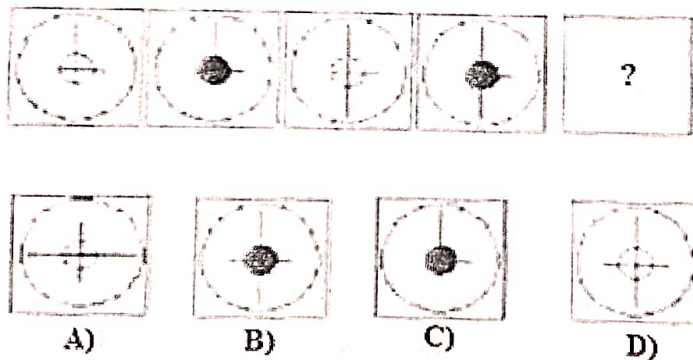
13. The design principle which focuses on the environmental impact of a product throughout its life cycle:

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

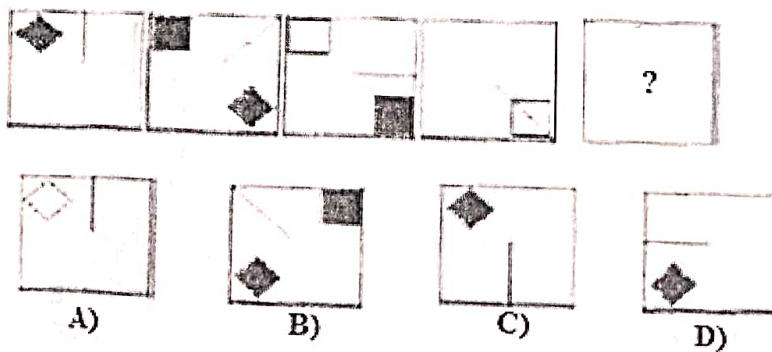
14. Which figure is identical to figure (X)?



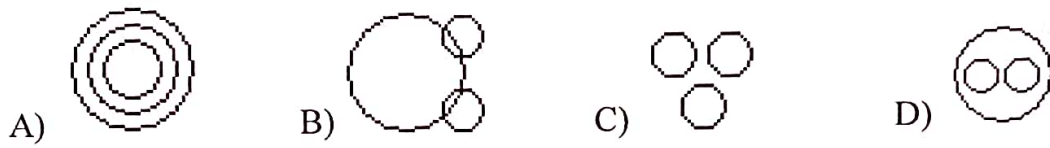
15. Which figure is next in the sequence?



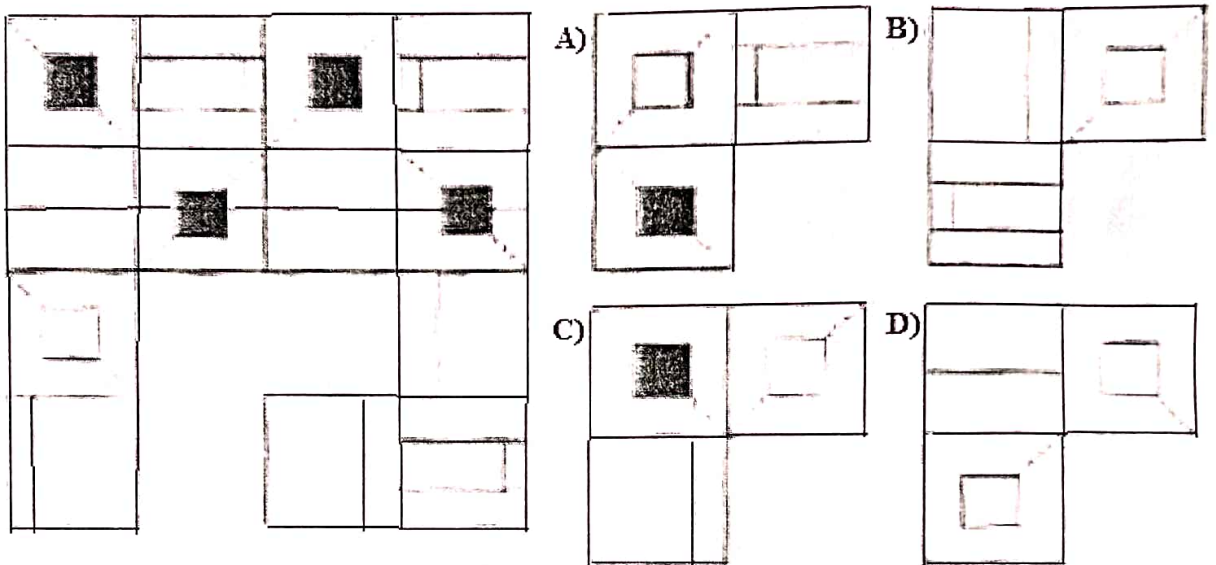
16. Which figure is next in the sequence?



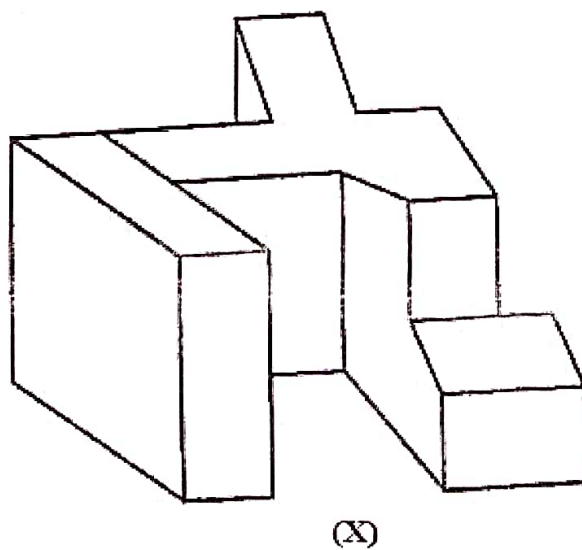
17. Which of the following diagrams indicates the best relationship between factory, product and machinery?



18. Which figure completes the statement?

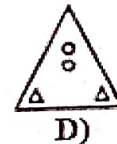
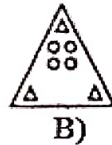
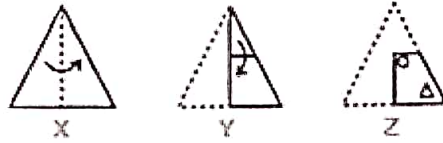


19. Find out the total number of faces of the solid in the figure (X).



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

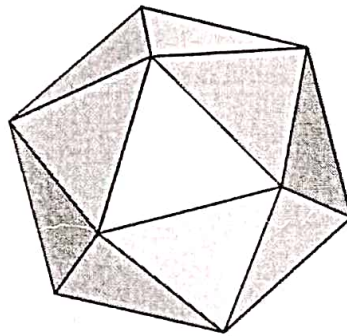
20. Choose a figure which would most closely resemble the unfolded form of Figure (Z).



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?

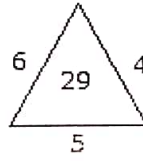
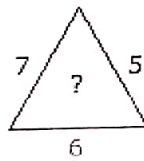
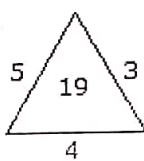
A) 2:1 B) 3:2 C) 25:18 D) 27:20

22. How many faces does an icosahedron have?



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

23. Which one will replace the question mark?

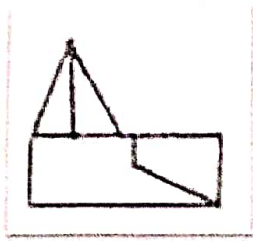


A) 25 B) 37 C) 41 D) 47

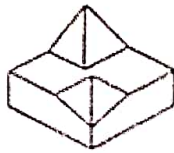
24. A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?

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

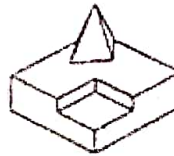
25. Which figure has the same front view as the figure (X)?



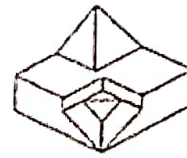
(X)



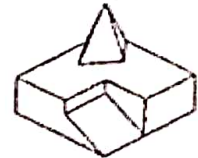
A)



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
-

Qn. Booklet No:

22011

Roll Number:

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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.
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A

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100 MINUTES

1. ----- became famous for the law related to the magnitude of heat due to current.
A) Prescott Joule B) James watt
C) Hans Christian Oersted D) Michael Faraday
2. Which one of the following does **not** take place when a person is affected by electric shock?
A) The body temperature of the victim decreases
B) Viscosity of the blood decreases
C) Body muscles contract
D) Clotting of blood takes place
3. There will be 6.022×10^{23} carbon atoms in ----- gm of carbon.
A) 16 B) 8 C) 6 D) 12
4. The first organic compound that was prepared in a laboratory:
A) Chloroform B) Glycerol C) Urea D) Glucose
5. The gland of the human body which secretes the hormone glucagon:
A) Pancreas B) Pituitary gland
C) Gonads D) Adrenal Gland
6. Irregular movement of muscles in human beings takes place due to -----.
A) Epilepsy B) Parkinson's disease
C) Alzheimer's disease D) Asthma
7. Article 51A of the Constitution of India pertains to -----.
A) Qualifications for election as the President of India
B) Fundamental duties of Citizens
C) Protection of Human Rights
D) Life and Personal Liberty of Citizens
8. Yanam was under the Rule of ----- Government before 1954.
A) Portuguese B) British C) Dutch D) French
9. What is the time required for the Earth to complete the rotation of 1° longitude?
A) 4 minutes B) 8 minutes C) 60 minutes D) 1440 minutes
10. The hot wind blowing in the north Indian Plain:
A) Doctor B) Mango showers
C) Loo D) Chinook
11. The country which produces the largest amount of Rare Earths in the world:
A) Russia B) India C) Brazil D) China

12. The ministry in the Union Government implementing the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS):
 A) Labour
 B) Rural development
 C) Finance
 D) Human resource Development
13. On which day Mother's Day is celebrated in India?
 A) The second Sunday of May
 B) The first Sunday of May
 C) The last Sunday of April
 D) The first Sunday of April
14. Kandy, Vavuniya and Batticaloa are major cities in -----.
 A) Bangladesh B) Nepal C) Sri Lanka D) Bhutan
15. Who is the present President of Ukraine?
 A) Vahagn Khachaturyan B) Rumen Radev
 C) Zoran Milanovic D) Volodymyr Zelenskyy
16. The famous Indian musician who popularized the stringed instrument Santoor:
 A) Hariprasad Chaurasia B) Shiv Kumar Sharma
 C) Amjad Ali Khan D) Pandit Ravi Shankar
17. The Brita dance is a traditional folk dance of:
 A) West Bengal B) Karnataka C) Assam D) Rajasthan
18. Brihadeswara temple is located in:
 A) Karnataka B) Andhra Pradesh
 C) Tamil Nadu D) Maharashtra
19. Gond tribe belongs to -----India.
 A) Central B) South C) Northeast D) East
20. Who invented the USB (Universal Serial Bus)?
 A) Sam Pitroda B) Bill Gates
 C) Ajay V. Bhatt D) Mark Zuckerberg
21. Who first measured the circumference of the Earth?
 A) Plato B) Galileo C) Ptolemy D) Eratosthenes
22. Find the mis- match?
 A) Germ theory – Louis Pasteur
 B) Virus – Martinus Beigerinick
 C) Continental Drift – Alfred Wegener
 D) Periodic table – Gregor Mendel

23. Find the correct match of book and author?
 A) Pathummayude Adu – Benyamin
 B) Oru Sankeerthanam Pole – Perumbadavam Sreedharan
 C) Aadu Jeevitham – Vaikom Muhammad Basheer
 D) Yanthram – Padmarajan
24. Who among the following is **not** a Jnanpith Award recipient?
 A) Akkitham Narayanan B) Amitav Ghosh
 C) Chandrasekhara Kambara D) O. N. V. Kurup
25. 'Arthashastra' was written by:
 A) Vishnu Sharma B) Premchand
 C) Kautilya D) Kalidasa
26. Which among the following is **not** considered as an air pollutant?
 A) Nitrogen dioxide B) Carbon dioxide
 C) Sulphur dioxide D) Lead
27. The most abundant metal in the crust of the Earth:
 A) Mg B) Fe C) Si D) Al
28. Who among the following is a Squash player from India?
 A) Mithali Raj B) P. C. Thulasi
 C) Deepika Pallikal D) Aditi Ashok
29. Kerala won the Santhosh trophy for the first time in:
 A) 1973- 74 B) 1991- 92 C) 1982- 83 D) 1976- 77
30. The captain of the India Men's hockey team which won the bronze medal at Tokyo Olympics in 2021:
 A) Bharat Chettri B) P. R. Sreejesh
 C) Manpreet Singh D) Pargat Singh
31. The ages of Anu and Binu are in the ratio 5 : 7. Four years hence their ages will be in the ratio 3 : 4. Their present ages are respectively:
 A) 10 , 14 B) 15 , 21 C) 20 , 28 D) 30 , 42
32. A student scored 40 per cent marks in an examination and failed by 4 marks. Another student scored 60 per cent marks in the same examination and had 6 marks more than the pass mark. Then the pass mark is:
 A) 24 B) 44 C) 64 D) 84
33. How long will it take to earn a simple interest of Rupees 180 on Rupees 2000 at 6 per cent per annum?
 A) 15 months B) 16 months C) 18 months D) 21 months

34. The ratio of the area of a square to that of a square drawn on its diagonal is:
 A) 1 : 1 B) 1 : $\sqrt{2}$ C) 1 : 4 D) 1 : 2
35. In an examination 48 percent of the total number of candidates passed the Mathematics test and 58 percent of the total number passed the English test. What percent of the total number failed both tests if 30 percent passed both tests?
 A) 46 B) 44 C) 34 D) 24
36. The average age of a man and his son is 18 years. If the ratio of their ages is 5 : 1, what will be the ratio after 6 years?
 A) 10 : 3 B) 5 : 2 C) 4 : 3 D) 3 : 1
37. A sum of money is divided among A, B, C and D in the ratio 3 : 7 : 9 : 13. If B's share is ₹4872, what is the total share (in Rupees) of C and D?
 A) 15312 B) 15321 C) 13512 D) 13125
38. What per cent above the cost price should an article be marked so that 20 percent may be gained even after allowing a discount of 20 per cent?
 A) 20 B) 25 C) 40 D) 50
39. The costs of a table and a chair are in the ratio 5 : 7. If they be increased by 20 percent and 10 percent respectively, what is the new ratio?
 A) 60 : 77 B) 16 : 17 C) 66 : 70 D) 6 : 7
40. Two trains are running in opposite directions at the same speed. If each train is of length 120 metres and they cross each other in 12 seconds, then the speed of each train in km/hour is:
 A) 10 B) 18 C) 36 D) 72
41. A man travels from home to his office at a speed of 6 km/hour and returns home at a speed of 10 km/hour. If he takes 10 hours in all, what is the total distance travelled?
 A) 50 km B) 75 km C) 100 km D) 150 km
42. A reduction of 20 per cent in the price of apples enables a man to buy 2 kg. more of apples for ₹ 120. What was the price of a kg. of apples before reduction?
 A) ₹10 B) ₹ 12 C) ₹15 D) ₹ 20
43. The average age of a group of 8 women was increased by 2 years when two of them, each aged 22, were replaced by two men. What is the average age of the two men?
 A) 24 yrs B) 26 yrs C) 28 yrs D) 30 yrs
44. A sum of ₹950 amounts to ₹ 1064 in two years at simple interest. What would be the amount if the interest was reduced by 2 percent?
 A) ₹1013 B) ₹1026 C) ₹ 1032 D) ₹ 1045

45. The speed of a boat in still water is 20 km/hour. If the speed of the stream is 5 km/hour, what is the speed of the boat downstream?
 A) 25 km/hour B) 22 km/hour C) 20 km/hour D) 18 km/hour
46. The ratio of the speed of two trains, one running at the rate of 45 km/hour and the other running at the rate of 20 metres/second is:
 A) 3 : 5 B) 5 : 3 C) 5 : 8 D) 8 : 5
47. During a 6-day class, the average attendance for the first four days was 200 and that during the last three days was 220. If the average attendance for the six days was 210, what was the attendance on the fourth day?
 A) 200 B) 210 C) 212 D) 220
48. The age of a father 10 years ago was thrice the age of his son 10 years hence, the father's age will be twice that of his son. The ratio of their percentages is;
 A) 5 : 2 B) 7 : 3 C) 9 : 5 D) 8 : 5
49. Find the missing number in the series:
 25, 50, 30, 45, 35, 40, ---
 A) 30 B) 35 C) 40 D) 45
50. Find out the wrong number in the series:
 3, 7, 15, 27, 63, 127, 255
 A) 7 B) 27 C) 15 D) 63

Read the following passage and find out the answers to the questions 51 - 56:

The Antarctic is the most remote continent and the last to be discovered but it constitutes about a tenth of the world's land surface. It is also the only continent without an indigenous human population.

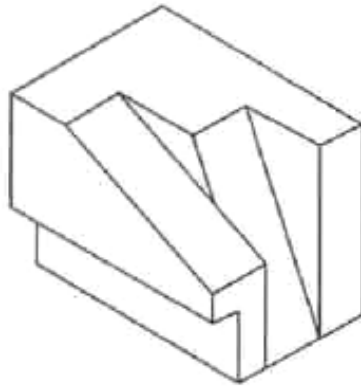
In the past it had a warm climate supporting luxuriant vegetation and large animals, but the climate deteriorated over the last 30 million years, once the great continent Gondwana had drifted apart sufficiently for a circumpolar current to become established. This, the largest ocean current in the world, cut off Antarctica from the warmer oceans to the north and allowed the ice sheets, in places over four kilometres thick, to develop.

This region is the earth's major heat sink and contains ninety percent of the world's ice and nearly three-quarters of its fresh water. Only two percent of the continent is not covered by ice and life retains a tenuous foothold there.

Nearly half of the land is hidden by thick floating ice shelves or glaciers and the rest is scoured by icebergs down to the depth of 15 metres or more which limits coastal life. But below this level where water temperatures are same there is a colourful marine world containing a great diversity of life. The southern ocean makes up a tenth of the world ocean, and the expansion and contraction of the surrounding sea ice is the largest seasonal process on Earth. Recent work has shown that the pack ice provides a surprisingly productive winter habitat for a number of small creatures, the most important of them being krill.

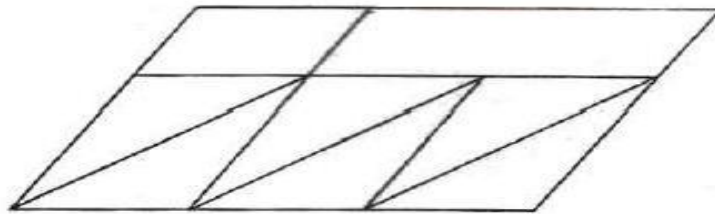
51. Which of the following statements is **not** true about Antarctica?
 A) It is a far off continent.
 B) It does not have permanent human habitation.
 C) It has a warm climate.
 D) Once it had vegetation and animals.
52. Antarctica was separated from the warmer oceans by:
 A) Ocean current B) Luxuriant vegetation
 C) Gondwana D) Large animals
53. What portion of the world's fresh water does the continent contain?
 A) Two percent B) Ninety percent
 C) Three quarters. D) Fifty percent
54. Which of the words in the passage is opposite in meaning to the word 'strong?'
 A) Luxuriant B) Tenuous
 C) Deteriorated D) Scoured
55. Area of the continent where life is present:
 A) Two percent B) Half of the earth
 C) Three percent D) A tenth of the world's surface
56. Meaning of the word 'indigenous' given in the passage is:
 A) Heterogeneous B) Homogeneous
 C) Comfortable D) Native
57. I lost ----- umbrella you gave me the other day. Find the suitable article
 A) an B) a C) the D) No article
58. We have not used that road for several years. The passive form of the sentence is:
 A) That road has not been used for several years.
 B) That road was not used by us for several years.
 C) That road had not been used for several years.
 D) That road is not used by us for several years.
59. Meaning of the idiom 'hands down.'
 A) Comfortably B) Tediously C) Enviously D) Effortlessly
60. Pick out the grammatically correct sentence:
 A) Tell me when are you ready.
 B) Neither his character nor his activities has been appreciated.
 C) He has no knowledge of and interest in Science.
 D) The boy insisted to buy a kite for him.
61. Cruelty to animals ----- seriously looked upon by the society nowadays
 A) are B) is C) has D) have

71. Find out the total number of surfaces of the solid in the given figure.



- A) 12 B) 14 C) 10 D) 13

72. Find out the total number of parallelograms in the given figures.

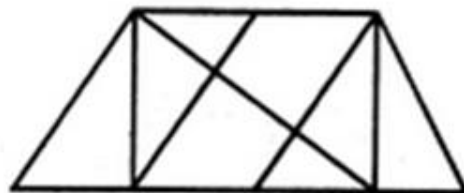


- A) 12 B) 16
C) 20 D) None of these

73. The dimension of a standard A4 paper is:

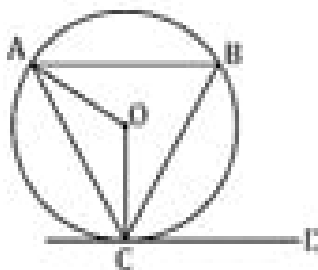
- A) 20cm x 24cm B) 18cm x 26cm
C) 21cm x 29.7cm D) 20cm x 28.6cm

74. Find out the total number of triangles in the given figure.

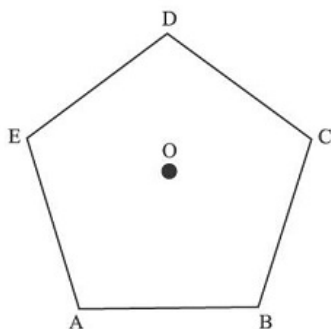


- A) 15 B) 14 C) 12 D) 10

75. In the given diagram O is the centre of the circle and CD is a tangent. $\angle CAB$ and $\angle ACD$ are supplementary to each other $\angle OAC = 30^\circ$. Find the value of $\angle OCB$.



- A) 30° B) 60° C) 45° D) 90°
76. ABCDE is a regular pentagon. O is a point inside the pentagon such that AOB is an equilateral triangle. What is $\angle OEA$?

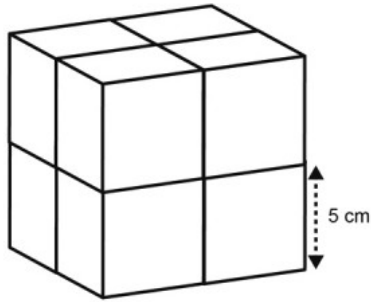


- A) 108° B) 60° C) 72° D) 54°
77. How many faces does an icosahedron have?



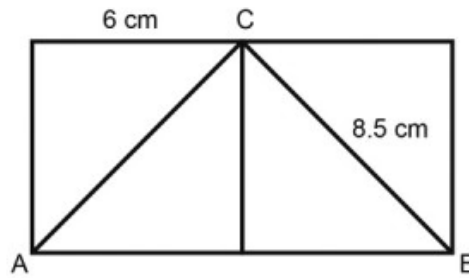
- A) 12 B) 16 C) 20 D) 18

78. What is the volume of the cube in the figure below?



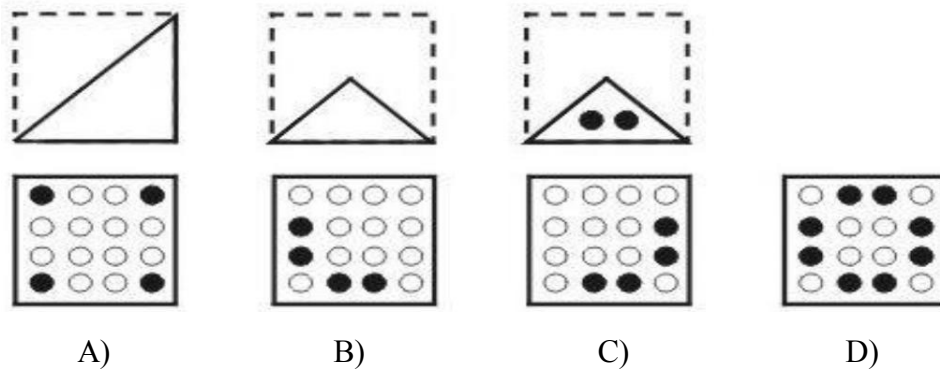
- A) 1000 cm^3 B) 625 cm^3 C) 725 cm^3 D) 750 cm^3

79. What is the perimeter of ABC in the below given shape?



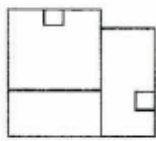
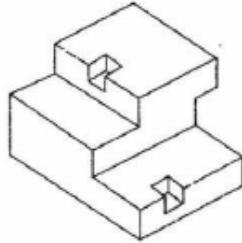
- A) 26cm B) 25cm C) 29cm D) 30cm

80. The following images show how a paper has been folded and punched in the end. Choose the correct pattern when it is open.

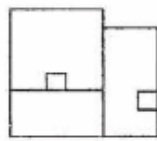


- A) B) C) D)

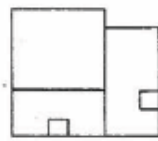
81. Identify the correct top view of the given figure.



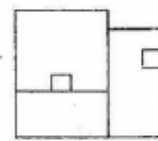
A)



B)

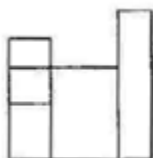
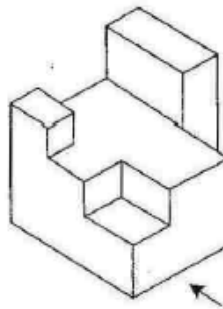


C)

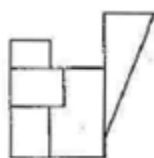


D)

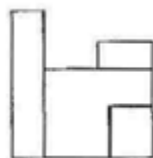
82. Identify the correct view of the given object from the side indicated by arrow:



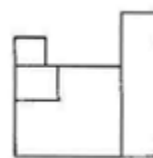
A)



B)

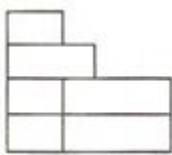
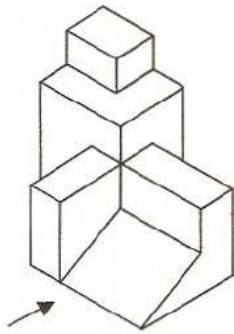


C)

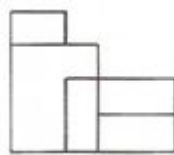


D)

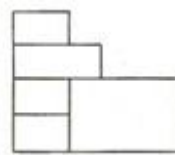
83. Identify the correct view of the given object from the side indicated by arrow:



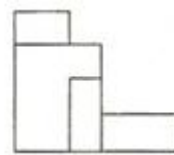
A)



B)

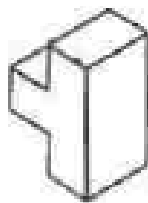


C)

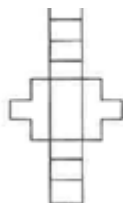


D)

84. Identify the correct shapes from the given figures from which the problem figure can be developed.



A)



B)

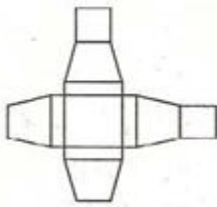


C)

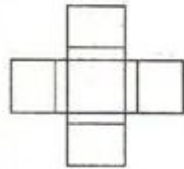


D)

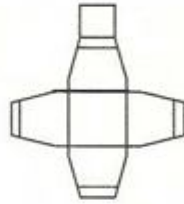
85. Identify the correct shapes from the given figures from which the problem figure can be developed.



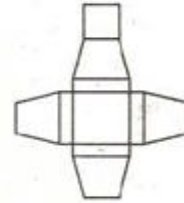
A)



B)

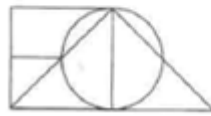
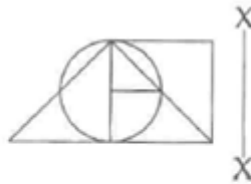


C)



D)

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



A)



B)

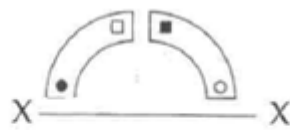


C)

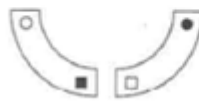


D)

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



A)



B)

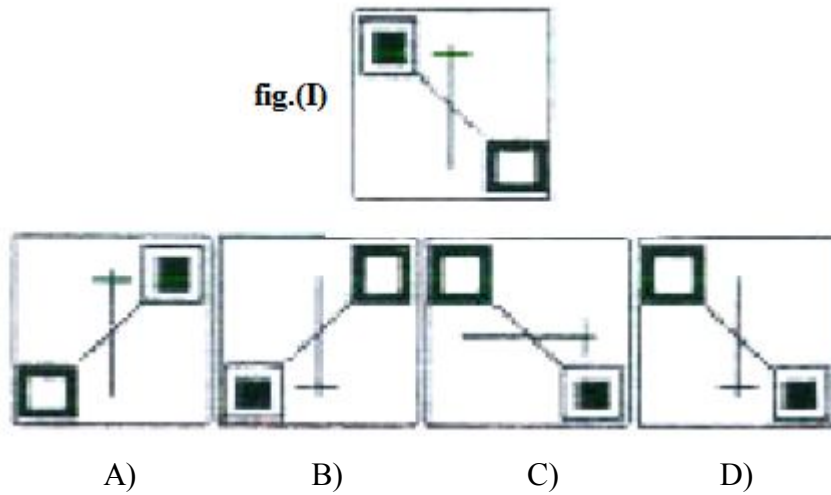


C)

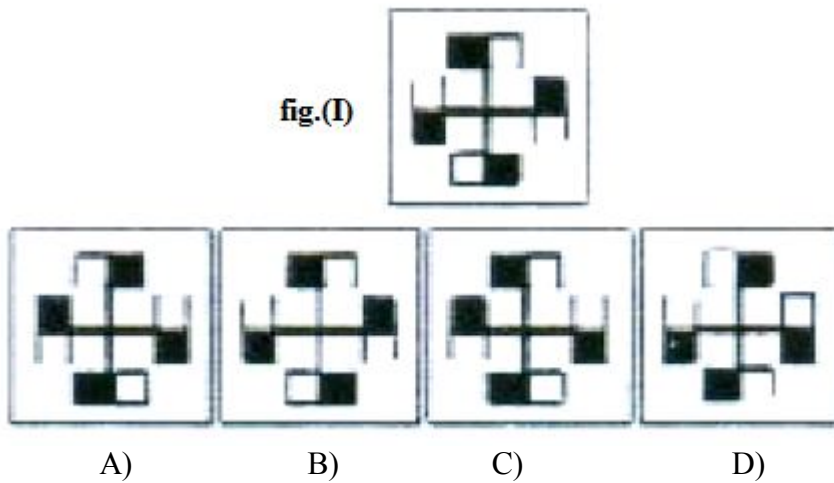


D)

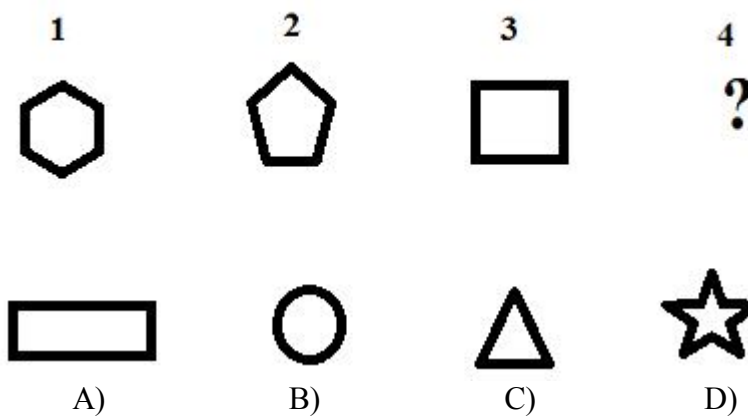
88. Which figure is identical to the figure (I)?



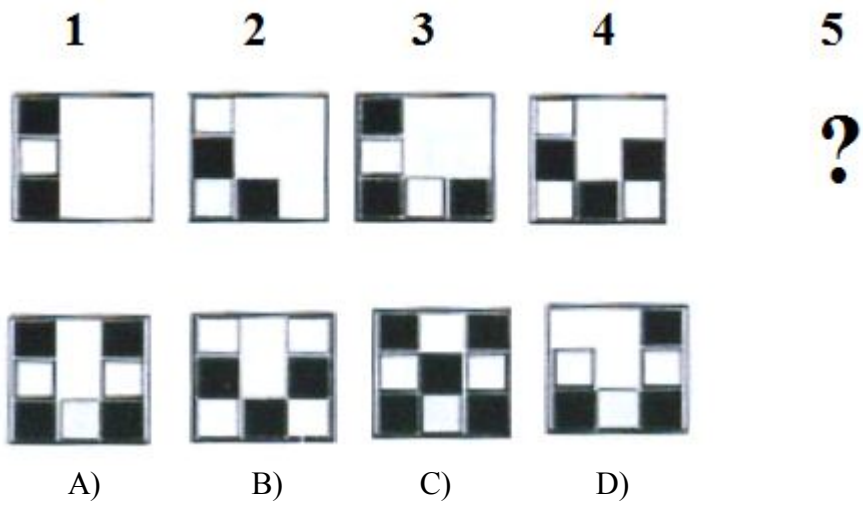
89. Which figure is identical to the figure (I)?



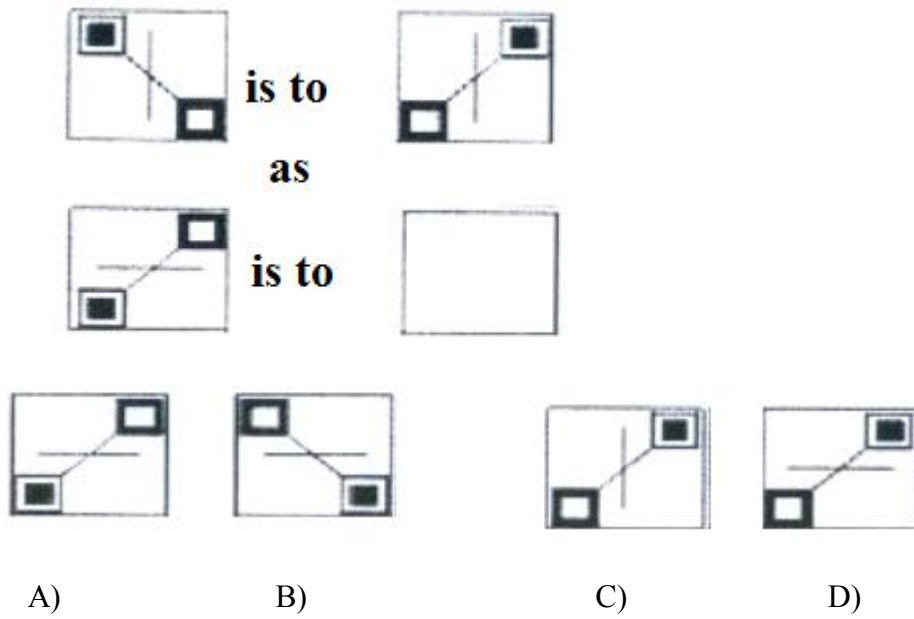
90. Which figure is the fourth in the sequence?



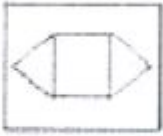


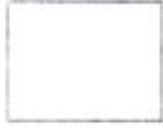
91. Which figure is the fifth in the sequence?


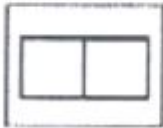

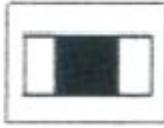


92. Which figure completes the statement?







93. Which figure completes the statement?


is to

as

is to


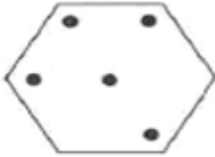
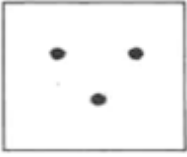
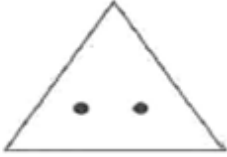
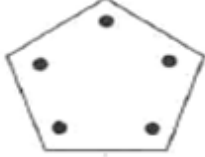
A) B) C) D)

94. Find the odd figure out.

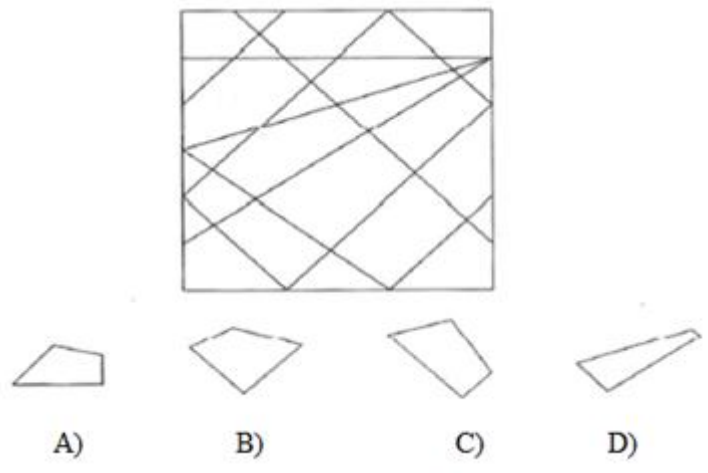
A) B) C) D)

95. Find the odd figure out.

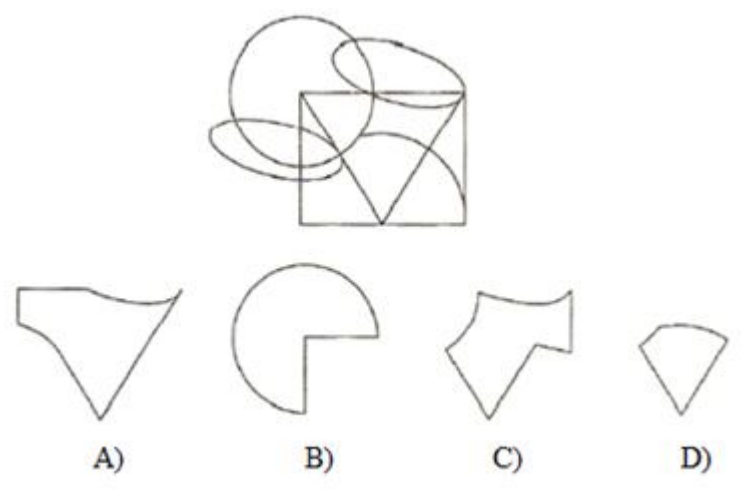





A) B) C) D)

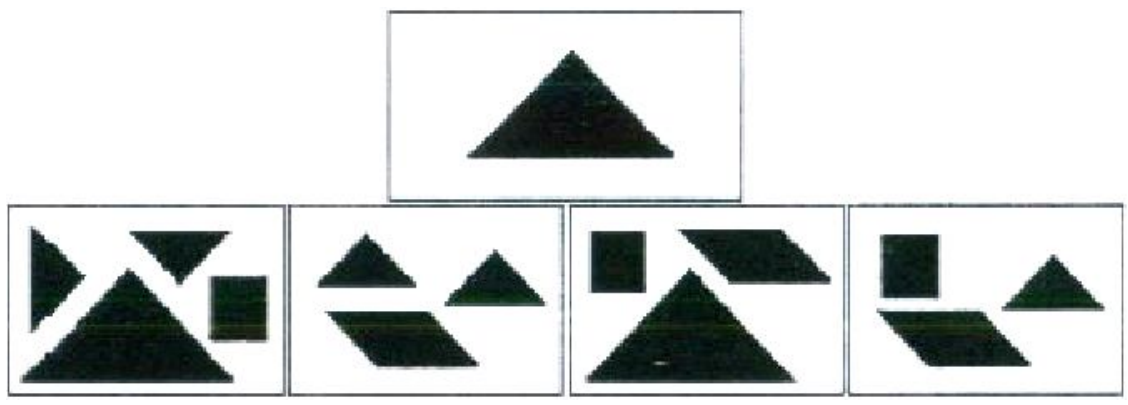
96. Find out the shape which is hidden in the given figure.



97. Find out the shape which is **not** hidden in the given figure.

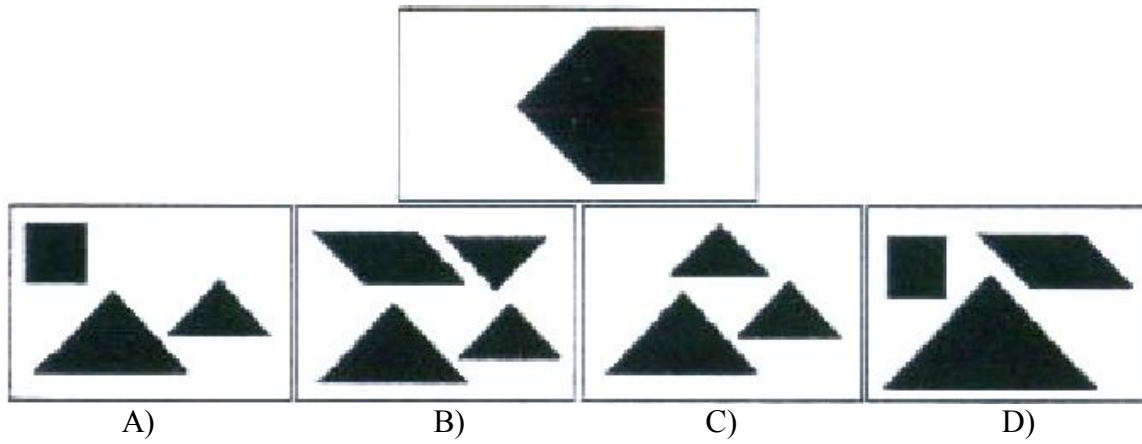


98. Which group of shapes can be assembled to make the shape shown?

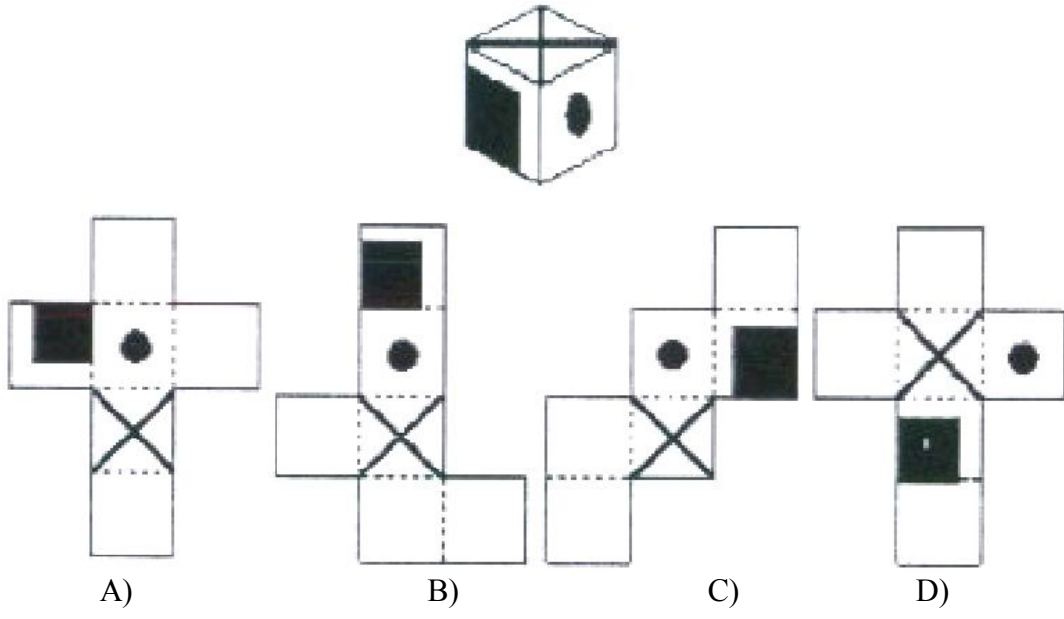


A) B) C) D)

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



100. Which pattern can be folded to make the cube shown?

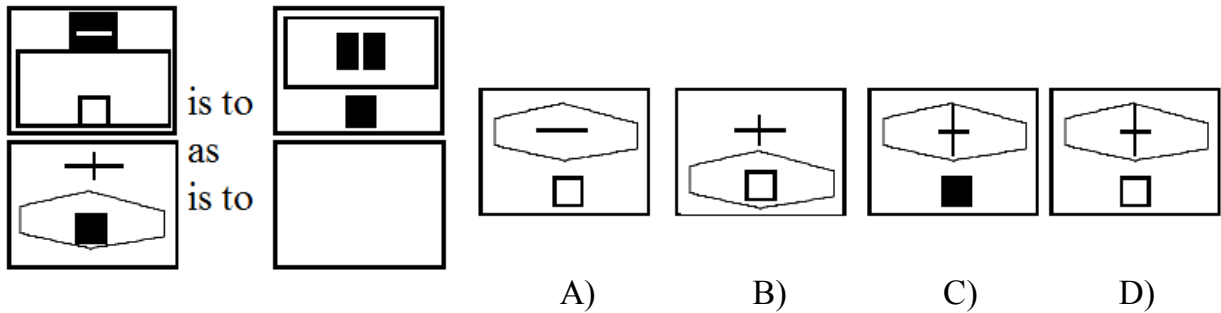


21. Ozone layer is located in:
A) Stratosphere B) Ionosphere
C) Troposphere D) Asthenosphere
22. A radioactive mineral found in the beach sands of Kerala:
A) Ilmenite B) Monazite C) Sillimanite D) Rutile
23. Which among the following is **not** true about Aadhaar Card of the Government of India?
A) A 12-digit unique identity for every Indian individual, including children and infants
B) Each individual will be given a single unique Aadhaar ID number
C) Establishes uniqueness of every individual on the basis of demographic and biometric information
D) Mandatory for every Indian resident who has identification documents
24. The World Environment Day theme for 2022 was:
A) Forests – Nature At Your Service
B) Beat Air Pollution
C) #Beat Plastic Pollution
D) Only One Earth
25. Serbia, Croatia, Slovenia and Bosnia were part of the erstwhile ----.
A) USSR B) Czechoslovakia
C) Yugoslavia D) Hungary
26. Present Union Minister of Commerce and Industry Government of India:
A) Kiran Rijju B) Anurag Thakur
C) Piyush Goyal D) Narayan Rane
27. The present Governor of Reserve Bank of India is:
A) Rajiv Kumar B) Praveen Kumar Shrivastava
C) Shaktikanta Das D) Urjit Patel
28. The first constitution literate district in India:
A) Kollam B) Kota C) Kohima D) Kolhapur
29. Ajanta caves are located in the state of:
A) Jharkhand B) Maharashtra C) Rajasthan D) Karnataka
30. Thalakkal Chandu was the leader of:
A) Kurumans B) Irulars C) Kurichias D) Kanikkars

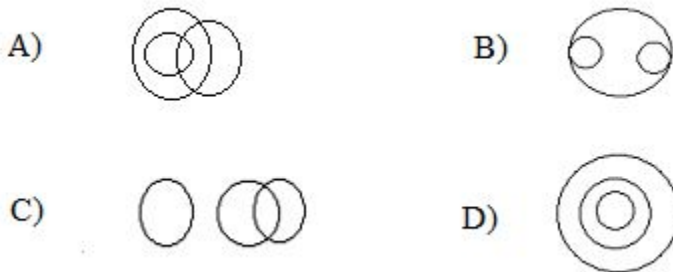
31. Add suitable article to the sentence:
It was ---- unanimous decision.
A) A B) An C) The D) No article
32. Use the correct preposition in the following sentence:
Take the book---- the table.
A) of B) on C) off D) at
33. Choose the suitable phrasal verb to complete the sentence:
They ----- their boots and overcoats.
A) Put on B) put down C) put up D) put off
34. Pick the word that is spelt correctly:
A) magneficent B) maleficent C) inefficiount D) innecence
35. The word *fervently* means:
A) calm B) apathetic C) frigid D) ardent
36. Which of the following gives the meaning for “to find a common ground?”
A) to differentiate B) to come to an agreement
C) to enumerate D) to discover
37. Identify the word opposite in meaning to ‘abridge’
A) curtail B) enlarge
C) cutback D) retrench
38. Add appropriate question tag.
Everybody was happy, ---?
A) wasn’t everyone B) wasn’t they
C) weren’t everyone D) weren’t they
39. Spot the reflexive pronoun in the sentence:
They enjoyed themselves during the picnic.
A) They B) Enjoyed C) Themselves D) Picnic
40. Convert the sentence into passive voice:
She was mending socks.
A) Socks were mended by her.
B) Socks was mended by her.
C) Socks were being mended by her.
D) Socks was being mended by her.

57. In a two-digit number, the unit's digit is 4 more than that of ten's digit. The sum of the digits is 36 less than the number. What is the product of the digits of the number?
 A) 24 B) 28 C) 32 D) 36
58. The positions of the first and last alphabets in the word PRODUCTION are interchanged. Similarly, the positions of the second and second last alphabets are interchanged and so on. Which of the following will be the fourth to the right of the eighth alphabet from the right end after the rearrangement?
 A) O B) D C) C D) U
59. In a wholesale fruit shop there are two types of grapes. The cost of Type A grapes is ₹ 15 per kg and Type B is ₹ 20 per kg. If both are mixed in the ratio 2:3, then the price of mixed grape per kg is:
 A) ₹ 17.00 B) ₹ 18.00 C) ₹ 18.50 D) ₹ 19.50
60. The sum of 9th and 11th term of the sequence $\sqrt{2}, \sqrt{10}, 5\sqrt{2}, \dots$ is:
 A) $3750\sqrt{2}$ B) $3750\sqrt{10}$ C) $16250\sqrt{2}$ D) $16250\sqrt{10}$
61. A clock loses 4 minutes every hour and was set right at 5.00 PM on Wednesday. When does the clock shows the right time again?
 A) 5.00 AM on next Wednesday
 B) 7.00 AM on next Wednesday
 C) 5.00 AM on Thursday of the next week
 D) 5.00 PM on Thursday of the next week
62. In a population of 1200, the number of married couples is as much as the number of singles. What is the number of married persons?
 A) 525 B) 600 C) 750 D) 800
63. Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?
 A) 2 times B) 3 times C) 4 times D) 8 times
64. Five men are standing in a row facing towards east. Roy is to the right of Umesh, Shaan and Ajith. Umesh, Shaan and Ajith are to the right of Rahim. Ajith is between Umesh and Shaan. If Shaan is fourth from the left, then what is the position of Umesh from the right?
 A) First B) Second C) Third D) Fourth

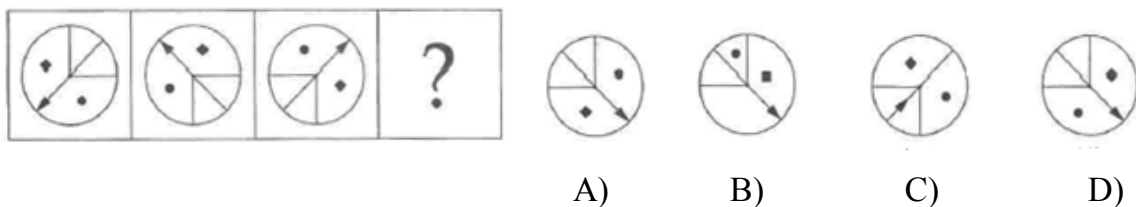
72. Which figure completes the statement?



73. Which of the following diagrams represent the relationship among males, fathers and doctors?



74. Which figure comes next?



75. Volume in a design is the -----.

- A) Solidity B) Direction extension
C) Extension of shape D) Both B and C

76. The ratio between the perimeter and the breadth of a rectangle is 5 : 1. If the area of the rectangle is 216 sq. cm, what is the length of the rectangle?

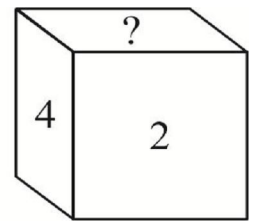
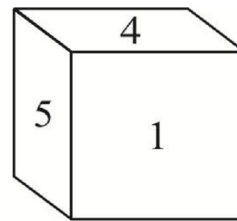
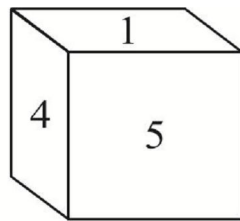
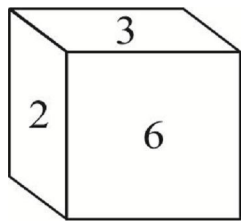
- A) 15 cm B) 18 cm C) 21 cm D) 20 cm

77. How many sides does a dodecahedron have?



- A) 12 B) 14 C) 24 D) 18

78. What is the number which comes in place of ‘?’

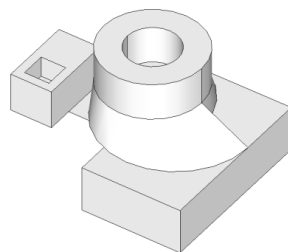
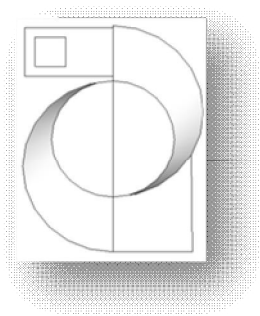


- A) 8 B) 6 C) 3 D) 1

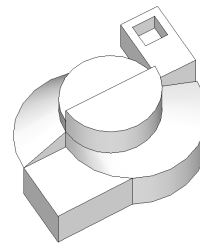
79. A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls. What is the volume of the hall?

- A) 1500 m^3 B) 3600 m^3 C) 1800 m^3 D) 1200 m^3

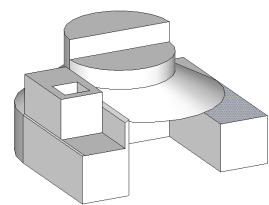
80. Which figure has the same top view as the problem figure given below?



(1)



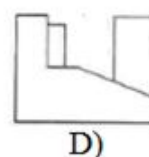
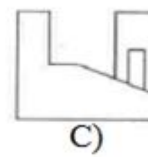
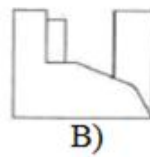
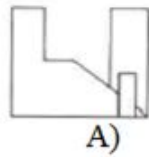
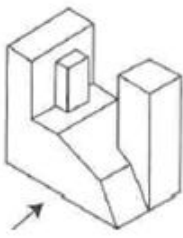
(2)



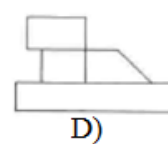
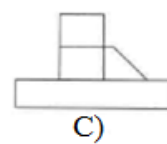
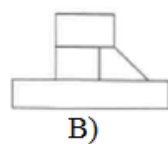
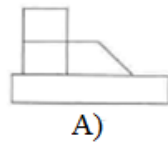
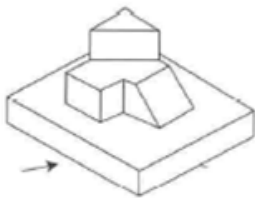
(3)

- A) 1 B) 2 C) 3 D) None of these

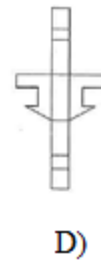
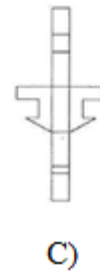
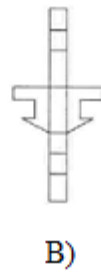
81. Identify the correct view of the given object from the sides indicated by arrow.



82. A cube of side 4 cm is painted black on the pair of one opposite surfaces, blue on the pair of another opposite surfaces and red on the remaining pair of opposite surfaces. The cube is now divided into smaller cubes of equal side of 1 cm each. How many smaller cubes having less than 2 sides painted are there?
 A) 15 B) 18 C) 32 D) 24
83. Identify the correct view of the given object from the sides indicated by arrow.

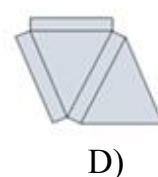
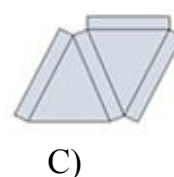
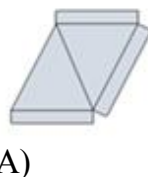
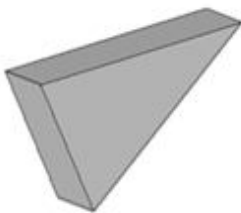


84. Identify the correct shapes from the given figures from which the problem figure can be developed.



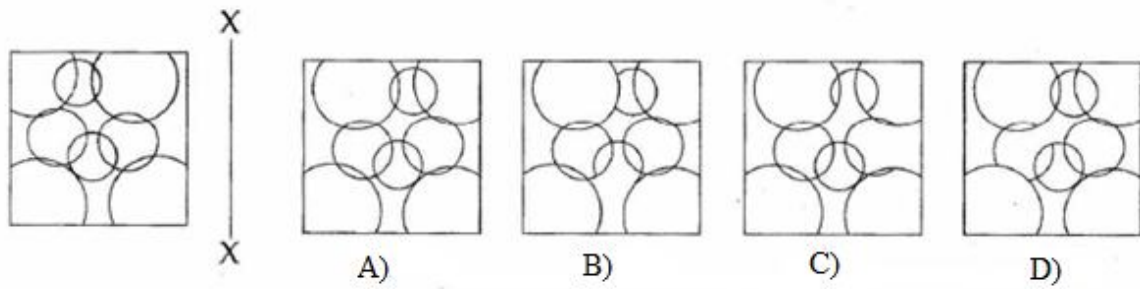
85. A standard Rubik's cube consists of ---- number of colours.
 A) 4 B) 8 C) 5 D) 6

86. Identify the correct shapes from the given figures from which the problem figure can be developed.

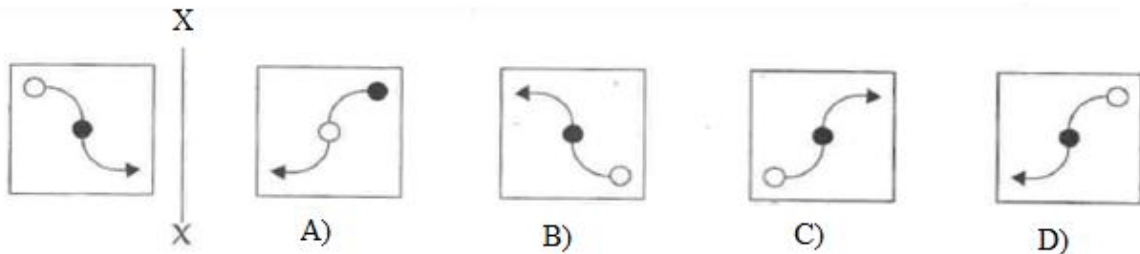


87. Find the exact mirror image of the question figures with respect to the

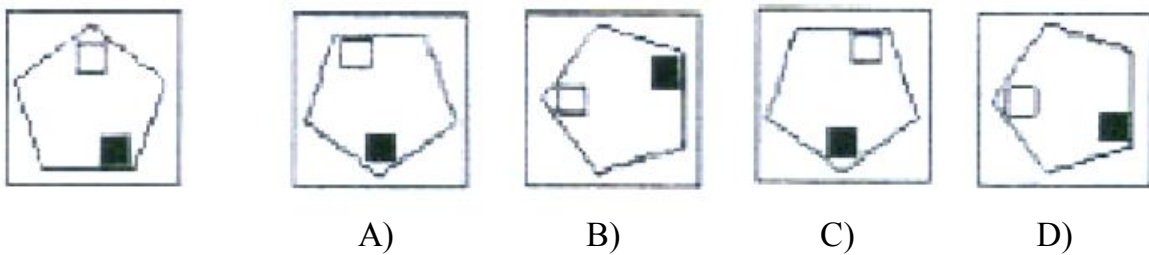
X-X axis shown.



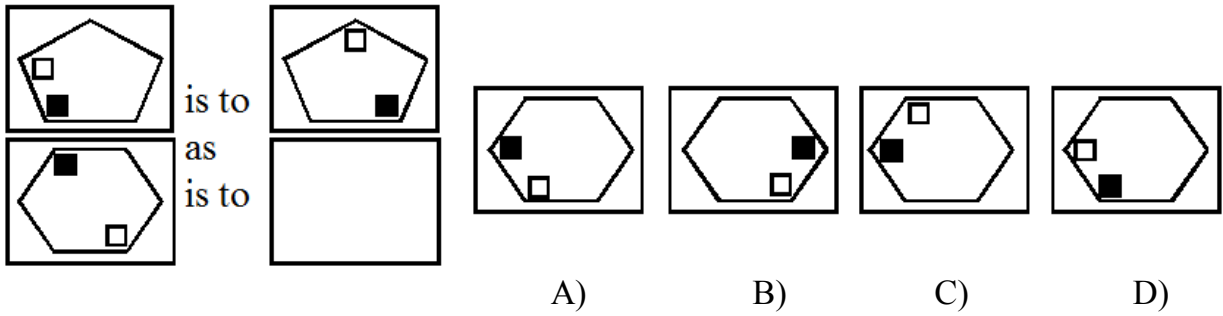
88. ----- is **not** related to image format.
 A) tiff B) jpeg C) bmp D) wav
89. Find the exact mirror image of the question figures with respect to the X-X axis shown.



90. Gesture drawing is -----.
 A) Landscape B) Movement of action
 C) Geometric drawing D) All the above
91. Which figure is identical to the first?



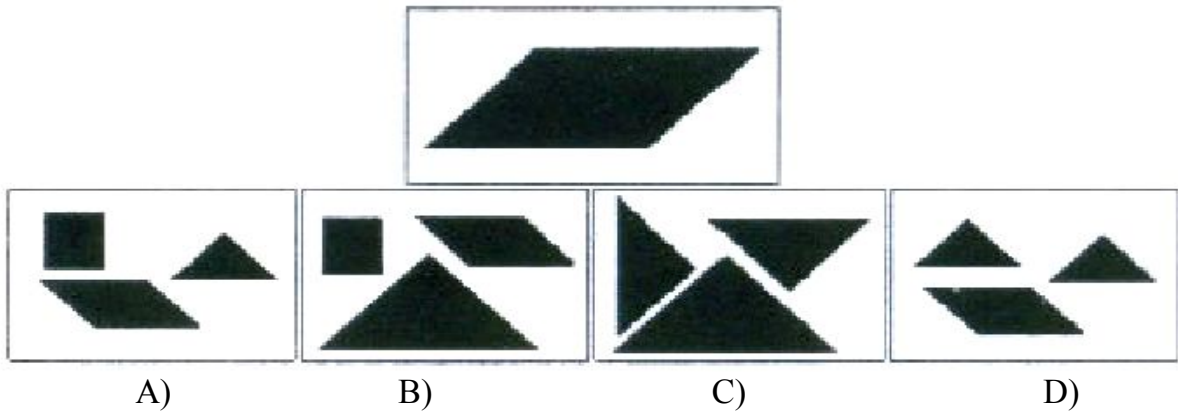
92. The arrangement of visual element:
 A) Harmony B) Contrast C) Unity D) Composition
93. Which figure completes the statement?



94. Forms repeated in a design:

- A) Pattern B) Unity C) Illustration D) Variety

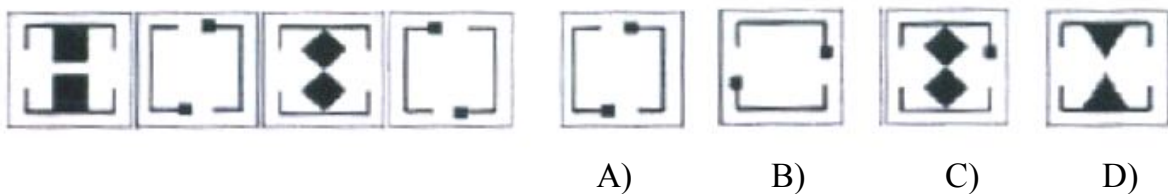
95. Which group of shapes can be assembled to make the shape shown?



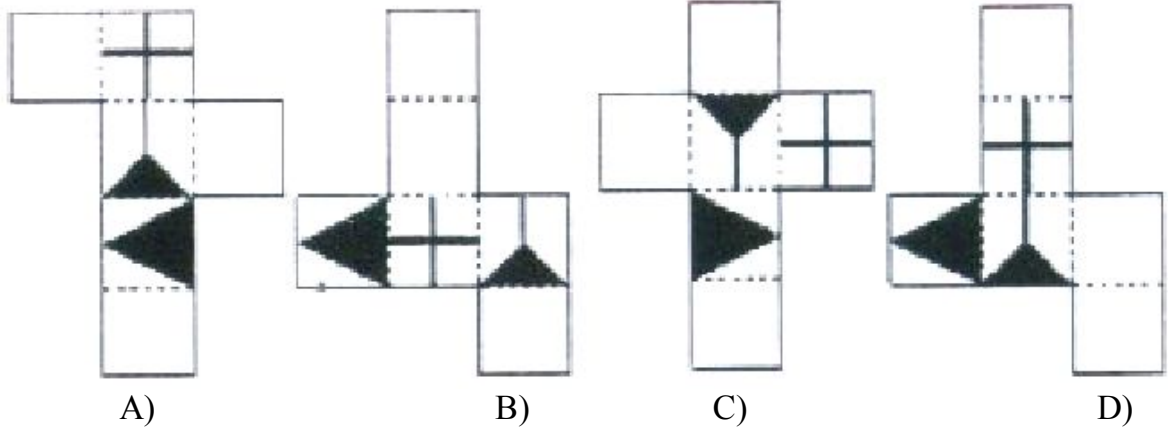
96. Identify the **incorrect** logo:

- A)  B) 
 C)  D) 

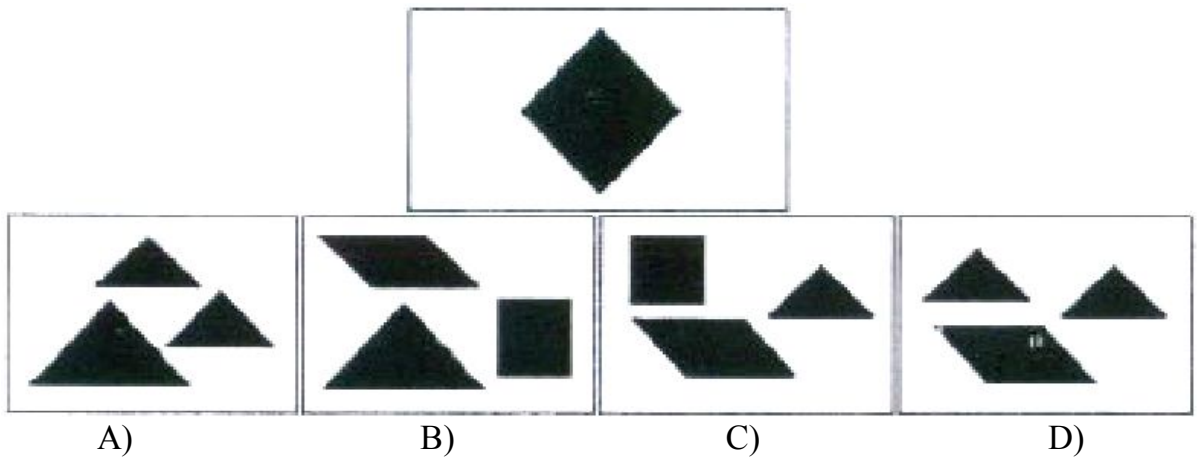
97. Which figure is next in the sequence?



98. Which pattern can be folded to make the cube shown?



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



100. Identify the **mismatch** among the following:



B. Design

Question Booklet Version:

A

Qn. Booklet No:

25018

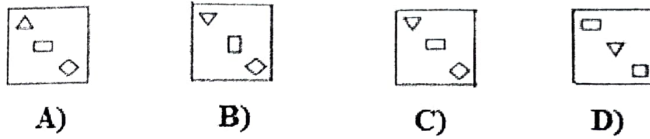
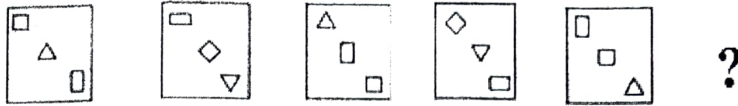
Roll Number:

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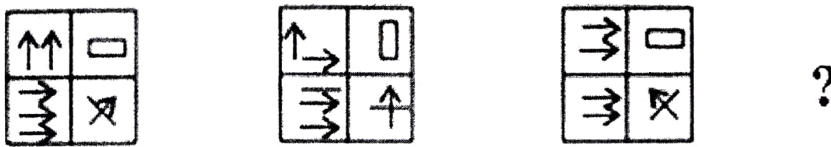
INSTRUCTIONS TO CANDIDATES

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 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 lbscentre@gmail.com 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.

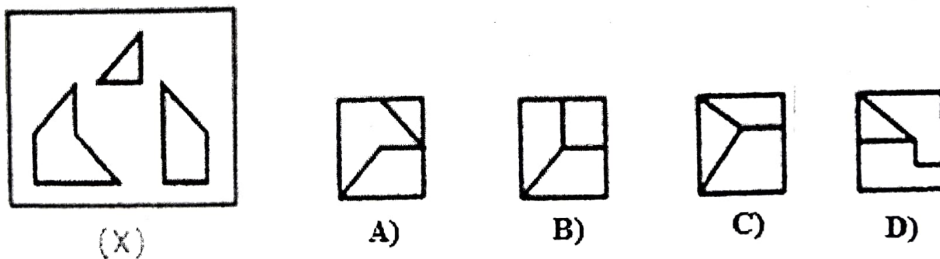
1. Identify the figure which will come next in the series:



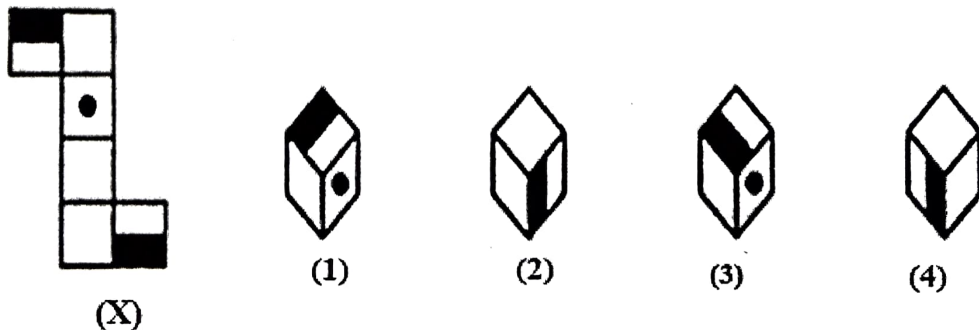
2. Identify the figure which will come next in the series:



3. Identify the figure that can be formed from the pieces given in figure (X)



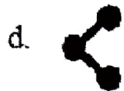
4. Choose the box that is similar to the box formed from the given sheet of paper (X)?



- A) 1 only B) 2 only C) 3 only D) 1, 2, 3 & 4

5. Match List I with List II:

List I



List II

1. Save

2. Share

3. Download

4. Report

A) a-3, b-1, c-4, d-2

B) a-2, b-1, c-4, d-3

C) a-3, b-4, c-1, d-2

D) a-4, b-3, c-2, d-1

6. Identify the alternative which closely resembles the water-image of the given combination:

NUCLEAR

BAEGCUI

ИUCTEAB

ИUCLGAB

ИUCLGAB

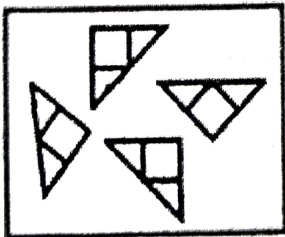
A)

B)

C)

D)

7. Identify the figure that can be formed from the pieces given in figure (X):



(X)



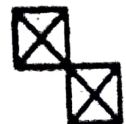
A)



B)

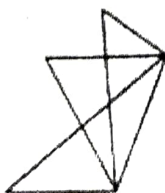


C)

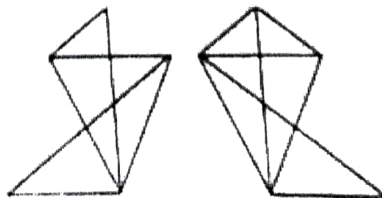


D)

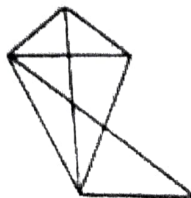
8. Identify the correct mirror image of the given problem figure (X)?



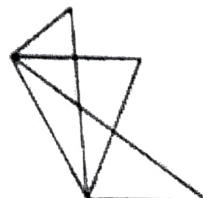
(X)



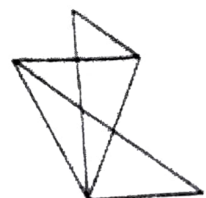
A)



B)



C)

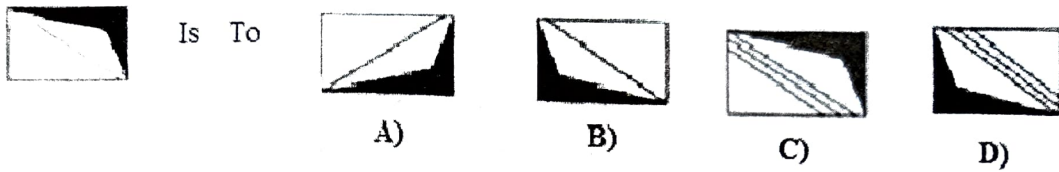
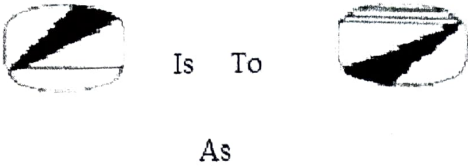


D)

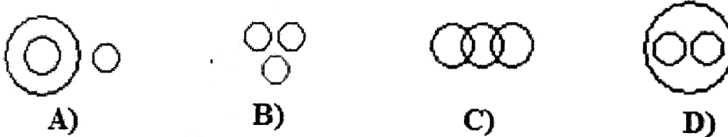
9. Which of the following is **not** an image format:

- A) JPEQ B) TIFF C) BMP D) WAV

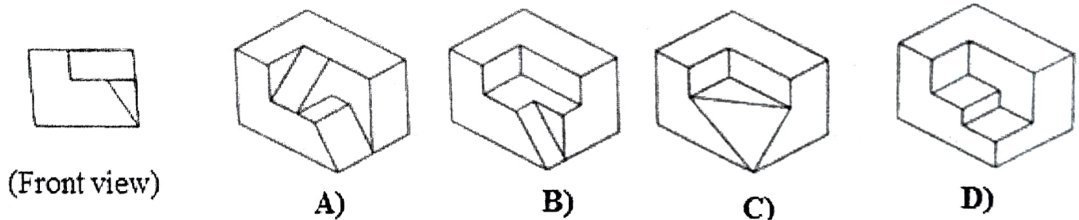
10. Which figure completes the statement?



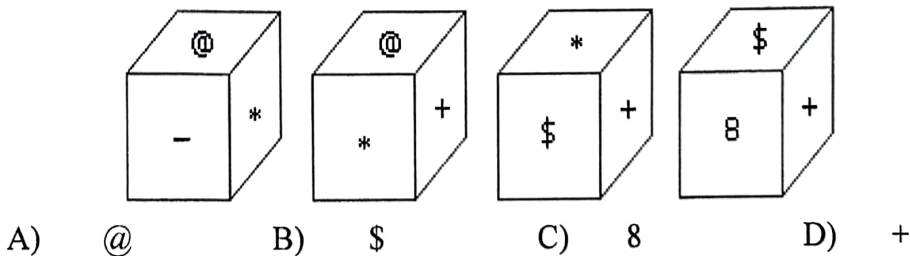
11. Which of the following diagrams indicates the best relation between Travelers, Train and Bus?



12. Identify the correct 3D figure from the answer figures (Front view is given):



13. Which symbol will be on the face opposite to the face with symbol * ?

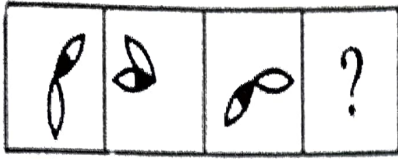


14. A hexagonal pyramid has ---- vertices.

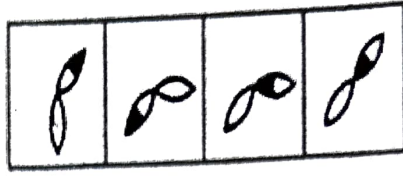
- A) 4 B) 5 C) 6 D) 7

15. Select the suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:



Answer Figures:

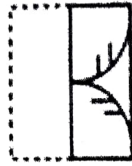


A) B) C) D)

16. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



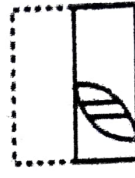
(X)



A)



B)



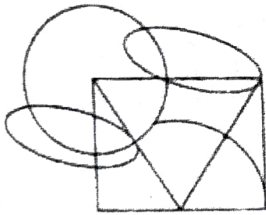
C)



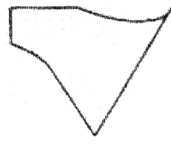
D)

17. One of the following answer figures is **not** hidden in the problem figure, in the same size and direction. Select that one as the correct answer.

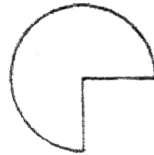
Problem Figure



Answer Figures



A)



B)

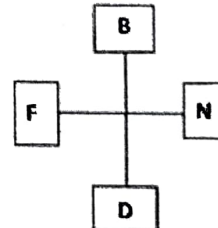
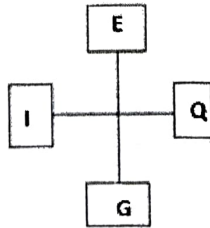
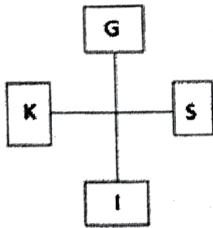


C)

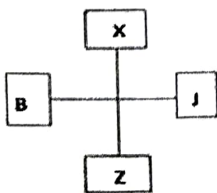


D)

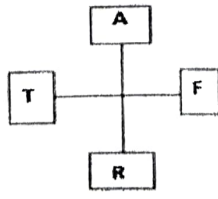
18. Identify the figure which will come next in the series:



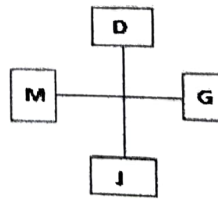
?



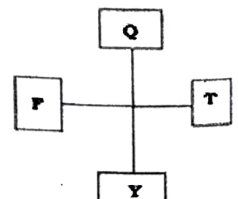
A)



B)



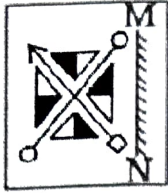
C)



D)

19. Identify the correct mirror image of the given question figure:

Question Figure : **Answer Figures**



A)



B)



C)

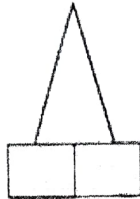
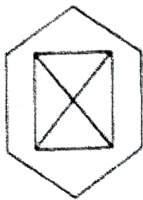


D)

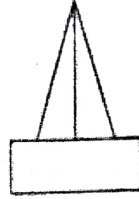
20. Problem figure shows top view of an object. Identify the correct elevation, from amongst the answer figures:

Problem Figure

Answer Figures



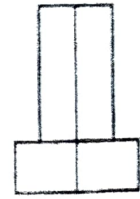
A)



B)

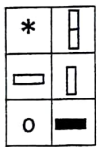


C)

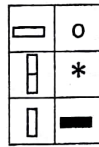


D)

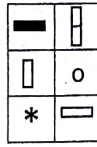
21. Among the following images find the odd one:



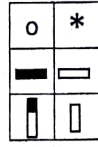
(1)



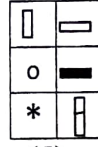
(2)



(3)



(4)



(5)

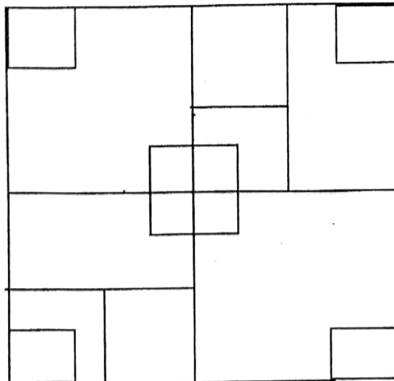
A) 3

B) 2

C) 4

D) 5

22. How many squares are shown in the figure given below?



A) 12

B) 17

C) 18

D) None of these

23. Asoka chakra in the Indian flag has ---- spokes.

A) 36

B) 24

C) 12

D) 20

24. The figure formed by folding the figure -I is:

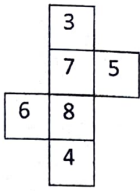
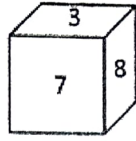
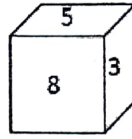


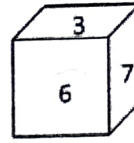
Figure- I



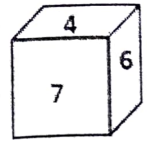
A)



B)

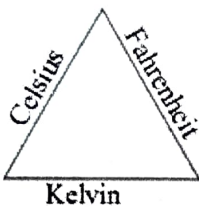


C)

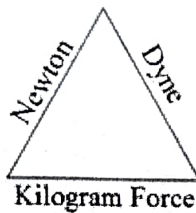


D)

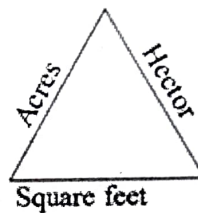
25. Find the odd one:



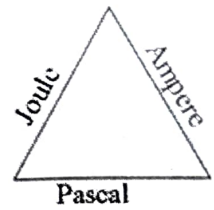
A)



B)



C)



D)

26. Identify the mismatch:

A) Charminar



B) Liberty Tower



C) Piza







D) Qutab Minar



27. Which of the following are applicable to programming graphics (pre-design phase) during design development process?

- | | |
|------------------------|-------------------|
| 1. Graphic worksheets | 2. Analysis cards |
| 3. Variety of matrices | 4. Bubble diagram |

A) 1 & 2 only B) 1, 2 & 3 only C) 2, 3 & 4 only D) 1 & 4 only

28. ---- is **not** a color in the Olympics logo.
 A) Blue B) Yellow C) Black D) Orange
29. Match List I with List II
- | List I (Company) | List II (Logo) |
|------------------|--------------------------------------------------------------------------------------|
| a. Meta | 1.  |
| b. Tesla | 2.  |
| c. Tata | 3.  |
| d. Mahindra | 4.  |
- A) a-1, b-4, c-2, d-3 B) a-3, b-4, c-2, d-1
 C) a-4, b-2, c-1, d-3 D) a-3, b-2, c-4, d-1
30. Who among the following is known as the 'Father of industrial design':
 A) Christopher Dressa B) Paul Rand
 C) Raymond Loewy D) William Morris
31. The first UNESCO City of Design in the world was:
 A) Berlin B) Jaipur C) Detroit D) Manchester
32. The 'World Design Day' is observed on:
 A) 21st April B) 27th April C) 7th June D) 17th June
33. India's tricolor National Flag was designed by:
 A) Rabindranath Tagore B) Pingali Venkayya
 C) Hem Chandra Kanungo D) Potti Sriramulu
34. Identify the brand tagline of Amul among the following:
 A) Swad zindagi ka B) Jithna Tasty, Uhna Healthy
 C) The taste of India D) Taste Bhi, Health Bhi
35. Who was the architect of the 'Gate way of India'?
 A) Edwin Lutyens B) George Wittet
 C) Le Corbusier D) Henry Hare
36. The 'Brahmos' missile is a joint venture of India and:
 A) France B) UK C) Israel D) Russia

37. The Indian manuscripts which entered UNESCO's 'Memory of the World Register' in April 2025:
- A) Rigveda and Bhagavat Gita
 B) Natyasastra and Sakunthalam
 C) Geetanjali and Rigveda
 D) Bhagavat Gita and Natyasastra
38. A Govt. of India initiative aimed at combating drug abuse:
- A) National Tobacco Control Programme (NTCP)
 B) Nasha Mukh Bharath Abhiyan
 C) NashaMukti Abhiyan
 D) Vimukthi Bharath
39. Present Vice president of USA who visited India recently:
- A) Kamala Harris B) J D Vance
 C) Chris Wright D) Dong Collins
40. The famous 'Lotus Mahal' is in:
- A) Jaipur, Rajasthan B) Gwalior, Madhya Pradesh
 C) New Delhi D) Hampi, Karnataka
41. The first satyagraha led by Gandhiji in India:
- A) Kheda Satyagraha B) Champaran Satyagraha
 C) Bardoli Satyagraha D) Ahmadabad Mill Satyagraha
42. Present Central Cabinet Minister for Commerce and Industry:
- A) J P Nadda B) Prahlad Joshi
 C) Dharmendra Pradhan D) Piyush Goyal
43. 'Wings of Fire' is the autobiography of:
- A) General Kariappa B) A P J Abdul Kalam
 C) Nelson Mandela D) Homi J Bhabha
44. The interest rate at which the Reserve Bank of India lends money to commercial banks is called:
- A) Repo rate B) Bank rate
 C) Reverse repo rate D) National interest rate
45. The tallest statue of B R Ambedkar called the 'Statue of social Justice' is in:
- A) Mumbai B) Vijyawada C) Nasik D) Indore
46. The first train in India with an outboard ATM facility:
- A) Panchavadi Express B) Rajadhani Express
 C) Himasagar Express D) Tejas Express

47. The 'QR Code' was invented by:
 A) Ray Tomlinson B) Masahiro Hara
 C) Charles Babbage D) Jack Kilby
48. Winner of Indian Super League 2024-25 Football League:
 A) Mohammedan Sporting FC
 B) Mumbai FC
 C) Bangalore FC
 D) Mohun Bagan Super Giant
49. The Malayalam film which won the award for the Best Feature Film in the 70th National Film Awards:
 A) Chayum Veil B) 2018- everyone is a Hero
 C) Aattom D) Saudi Vellakka
50. Who among the following known as the 'Father of artificial Intelligence'?
 A) Alan Turing B) John McCarthy
 C) Charles Babbage D) Jeff Bezos
51. The Article of the Constitution of India which provides for free and compulsory education for all children between 6 and 14 years of age?
 A) Article 19 B) Article 19 A C) Article 21 D) Article 21 A
52. How many Union Territories are there in India now?
 A) 6 B) 7 C) 8 D) 9
53. Deficiency of haemoglobin in the blood causes:
 A) Leukemia B) Leucoderma C) High BP D) Anaemia
54. The most abundant element in the crust of the Earth is:
 A) Aluminium B) Iron C) Silicon D) Oxygen
55. The UN General Assembly has declared ----- as the 'International Year of Quantum Science and Technology'.
 A) 2024 B) 2025 C) 2026 D) 2027
56. Faraday's Law is associated with:
 A) pressure on gases B) temperature and pressure
 C) electrolysis D) None of the above
57. NITI Aayog came into being on January:
 A) 2014 B) 2015 C) 2016 D) 2017
58. Lalgudi G Jayaraman is a master of:
 A) Veena B) Sitar C) Tabla D) Violin

59. Marthanda Varma defeated the Dutch in the battle of Colachel in:
A) 1721 B) 1737 C) 1741 D) 1797
60. 'Villuvandi Samaram' of 1893 was lead by:
A) Ayyankali B) Ayya Thycadu
C) Vagbhatananda D) Sahodaran Ayyappan

Questions (61-65). Read the passage and choose the most appropriate option to answer the questions/fill in the blanks.

In parts of Kerala where heavy rains cause deadly mudslides, researchers have developed a cheap early-warning system using microdata. Each farmer measures the rainfall on his land and feeds the information into a local database far more granular than the national weather service can provide. From this, an NGO works out which villages are so sodden as to be perilously unstable, allowing precise and timely evacuation warnings.

61. The major benefit of the new system mentioned in the passage:
A) It is cheap
B) It uses microdata
C) It has been developed by research
D) It provides clear and early warning
62. The word 'granular' as used in the passage relates to:
A) grain B) mud C) water D) information
63. 'NGO' refers to a:
A) Non-gazetted officer B) Non-government organisation
C) Non-government office D) Non-granular office
64. The national weather system sees the -----picture, but not the finer detail.
A) small B) fine C) big D) bold
65. A spelling error in the passage:
A) mudslides B) rainfell C) unstable D) evacuation

Questions (66-80). Choose the most appropriate of the options provided to answer the questions/fill in the blanks.

66. The expression 'yummy' refers to:
A) A young mother B) A sister who takes care of siblings
C) Delicious food D) Unpleasant smell
67. The house was -----quiet that day.
A) unreasonably B) unusually
C) seriously D) severely

68. The sentence, 'The boss is in good spirits' denotes that:
 A) The boss has had a couple of drinks.
 B) The boss is paying respects to ancestors.
 C) The boss is quite amiable.
 D) The boss is amenable to requests from religious leaders.
69. The groom and ----- are expected to cut the wedding cake.
 A) broom B) bride C) bridle D) broome
70. She is ----- this week.
 A) in come B) coming C) incoming D) come in
71. He is ----- tall to drive.
 A) too B) very C) almost D) enough
72. Do you want ----- stamps?
 A) some B) few C) ample D) no
73. The sentence 'Everybody hated the warden' could be reported as:
 A) The warden was everybody's hatred.
 B) Everybody was hated by the warden.
 C) The warden was hated by everybody.
 D) The warden hated everybody.
74. It took a lot of self-control to ----- hit him.
 A) evert B) not C) now D) event
75. She is ----old.
 A) twelve-years B) twelve-year C) twelve years D) twelve year
76. Pick the correctly spelt word:
 A) Cantankerous B) Rhinoceros
 C) Acciduos D) Centempories
77. Pick the part of the sentence which has an error, or pick 'D' if there is no error in it:
 The Spanish dictionary is totally different from Chinese.
 A) B) C) D) (No error)
78. The phrase 'bear with' denotes:
 A) to carry B) to be patient
 C) to exterminate D) to ensure
79. Pick the word that is spelt incorrectly:
 A) beckon B) reckon C) bagain D) sorely

80. Rearrange the words in the order of a logical sentence:
 expected will that it is to home their own most prefer people
 1 2 3 4 5 6 7 8 9 10 11 12
- A) 10 12 1 3 6 11 8 9 7 2 4 5
 B) 10 12 3 6 7 8 9 11 1 4 5 2
 C) 9 12 10 1 11 3 8 4 7 5 6 2
 D) 4 5 1 3 10 12 2 11 6 9 8 7
81. A person spends 20% of his salary on house rent. Out of the remaining salary he spent 10% on food. From the balance amount left with him, he spends 50% on EMIs. If his EMI is 7200 Rupees, what is his monthly salary?
 A) 20000 B) 30000 C) 40000 D) 50000
82. A invests Rs. 5000 for 3 years in a bank that offers 8% simple interest per annum. B invests Rs. 8000 for 3 years in another bank that offers 10% simple interest per annum. What is the difference in the interest they receive after 3 years?
 A) Rs.1400 B) Rs.1500 C) Rs.1600 D) Rs.1200
83. Average rainfall in a place for the month of January, February, March, April, May and June were 12 cm, 15 cm, 18 cm, 16 cm, 25 cm & 20 cm respectively. What should be the total rainfall for the next 6 months so that the average rainfall in a month is 12 cm?
 A) 15 B) 30 C) 38 D) 40
84. A person covers two-third of the total distance at 30 km/hr and the remaining at 15 km/hr. What is his average speed after the entire journey?
 A) 25 B) 18 C) 20 D) 22
85. 10 years ago, the ratio of age of father to son was 7:4. Ten years from now their age will be in the ratio 3:2. What is the ratio of their present age?
 A) 7:6 B) 8:5 C) 9:7 D) 9:5
86. A bag contains Rs 600 in the form of one rupee, 50 paise and 25 paise coins in the ratio of 3:4:12. Find the total value (in Rs) of the 25 paise coins present in the bag.
 A) Rs. 250 B) Rs. 275 C) Rs. 225 D) Rs. 300
87. Find the missing numbers in the correct order 2, 3, 5, 7, ____, ____, 17, 19.
 A) 13, 11 B) 11, 13 C) 9, 11 D) 11, 9
88. If $a:b = 5:2$, $b:c = 4:7$, $c:d = 1:2$, what is the value of $(a+b) : (c+d)$?
 A) 2:5 B) 2:3 C) 1:3 D) 3:2
89. Two pipes X and Y can independently fill a cistern in 20 minutes and 25 minutes respectively. Both are opened together for 5 minutes, after which Y is turned off. How much more time will the cistern take to fill?
 A) 11 min B) 16 min C) 20 min D) 24 min

90. If $572a32$ is divisible by 17, then what is the value of a ?
 A) 3 B) 1 C) 6 D) 8
91. The ratio of boys and girls in the class is 6:5. When 3 boys leave the class and 3 girls newly join the class, the number of boys and girls become the same. What is the total number of students in the class now?
 A) 77 B) 66 C) 55 D) 44
92. In an election involving 2 candidates A and B, A secured 84% of the total votes polled and won by a margin of 476 votes. If there are no invalid votes, how many voters are there?
 A) 700 B) 800 C) 900 D) 1000
93. A number N when divided by 5 leaves remainder 3. What could be the remainder when $2N$ is divided by 5?
 A) 3 B) 2 C) 1 D) 0
94. How many numbers from 1 to 100 (both included) are divided by both 3 and 5?
 A) 7 B) 8 C) 9 D) 6
95. Identify the odd one:
 A) 35 B) 21 C) 77 D) 15
96. In a farm, there are some pigeons and rabbits. If all the legs are counted, there are 56 legs. If heads are counted there are 18 heads. Find the number of rabbits?
 A) 10 B) 15 C) 20 D) 12
97. If in a certain code, SEPTEMBER is written as RFOUDNAFQ. How will the word NOVEMBER be written in that code language?
 A) MPUFLCDS B) MNWDLFPR
 C) MPVENDET D) MPUFNESD
98. Which of the following is **not** a leap year?
 A) 1600 AD B) 700 AD C) 2000 AD D) 800 AD
99. The angle between the minute hand and the hour hand of a clock when the time is 8.30 is:
 A) 30° B) 60° C) 75° D) 45°
100. Which of the following letters would come next in the series of letters?
 Z, W, R, K, __.
 A) C B) D C) B D) A