



Instructions

1. This question paper booklet contains FOUR sections. Section "A" General Knowledge contains 25 questions of 2 marks each, Section "B" Mathematics contains 50 questions of 3 marks each. Section "C" Language contains 25 questions of 2 marks each and Section "D" Intelligence contains 25 questions of 2 marks each. In all the paper consists of 125 questions for a total of 300 marks. Answer all questions.
2. Duration of the test is 2 hours and 30 minutes. (150 minutes)
3. For each question, there are four probable answers, out of which only one is correct. The candidate is required to select the correct answer and darken the corresponding circle of the chosen answer. For example, if your answer for Question no. 37 is C, darken the circle C as given below.

Q. No.	Response
37	(A) (B) ● (D)

Only Blue/Black Ballpoint Pen is to be used to write on the OMR Answer Sheet. Candidates should bring their own ballpoint pen. Use of pencil is strictly prohibited.

4. All questions are to be attempted. Every question carries equal marks.
5. No negative marking will be done.

Note : OMR is given after the practice sets.

General Knowledge

1. On the banks of which holy rivers of India is the Kumbh Mela organized ?
(A) Only Ganga and Yamuna
(B) Ganga, Yamuna, Godavari and Shipra
(C) Narmada, Tapi and Kaveri
(D) Only Indus and Brahmaputra
2. What is the main attraction of the 'Losong and Namsong' festivals in Sikkim ?
(A) Boat race
(B) Pulling the chariot
(C) Mask dance (Chaam dance)
(D) Kite flying
3. What is the distance of the Marathon race ?
(A) 42.195 km (B) 46.195 km
(C) 43.195 km (D) 44.195 km
4. Who is the first Indian musician to win the Oscar award for Best original Score ?
(A) Resul Pookutty (B) A. R. Rehman
(C) Bhanu Athaiya (D) Mehboob Khan
5. What is the process of ploughing and cultivating the soil called ?
(A) Irrigation (B) Tilling
(C) Fertilisation (D) Harvesting
6. What is a device used to measure temperature ?
(A) Microscope (B) Barometer
(C) Thermometer (D) Spectrophotometer
7. What is the national animal of India ?
(A) Lion (B) Tiger (C) Elephant (D) Bear
8. Which of the following food preservation techniques uses vinegar ?
(A) Canning (B) Freezing
(C) Pickling (D) Dehydration
9. Which city is the headquarters of the Southern Command of the Indian Army located in :
(A) Kolkata (B) New Delhi (C) Mumbai (D) Pune
10. Which animal has the best sense of smell ?
(A) Humans (B) Dogs (C) Cats (D) Pigs
11. 'Train to Pakistan' was written by.....who also served as member of Rajya Sabha.
(A) Mulk Raj Anand (B) Khushwant Singh
(C) Anita Desai (D) Vikram Seth
12. What is the capital of France ?
(A) Rome (B) Madrid (C) Paris (D) Berlin
13. Which country has the secret intelligence agency known as the MI6 ?
(A) France (B) Germany
(C) United Kingdom (D) United States
14. Name the first Indian woman to be conferred with Grammy Award.
(A) Tanvi Shah (B) Anushka Shankar
(C) Asha Bhosle (D) Ananya Birla
15. When was the World Health Organization (W.H.O.) established ?
(A) 5 May, 1951 (B) 10 June, 1950
(C) 07 April, 1948 (D) 10 July, 1949
16. How does a male silk moth identify its female ?
(A) By hearing her voice
(B) By seeing her flight speed

- (C) By recognizing her smell from many kilometers away
(D) By looking at the colour of her body
17. In which city of Rajasthan is the Gadsisar Lake located?
(A) Jaipur (B) Jodhpur
(C) Jaisalmer (D) Udaipur
18. Tiny pores present on the surface of leaves are known as :
(A) nucleus (B) cytoplasm
(C) mitochondria (D) stomata
19. How many bones are there in the human hand ?
(A) 27 (B) 21 (C) 14 (D) 17
20. Hydrochloric acid is secreted in which part of our digestive system?
(A) Mouth (B) Stomach
(C) Liver (D) Small intestine
21. What is the traditional technique of water harvesting in which water is collected in underground pits or wells ?
(A) Tanking (B) Bunding
(C) Terracing (D) Well recharge
22. What is the main driving force of the water cycle :
(A) Heat from the sun (B) Wind
(C) Pressure (D) Gravity
23. What is the name of the largest moon in our solar system ?
(A) Io (B) Titan
(C) Ganymede (D) Callisto
24. On which date and at what time did Bachendri Pal reach the peak of Everest ?
(A) On 23rd May at 1:07 PM
(B) On 15th August at 8:00 AM
(C) On 17th November at 5:00 PM
(D) On 23rd May at 10:00 AM
25. What was the name of the first person to step on the Moon?
(A) Rakesh Sharma (B) Sunita Williams
(C) Neil Armstrong (D) Isaac Asimov
29. The smallest 4 digit number is obtained by expressing it as a product of prime numbers.
(A) $5 \times 5 \times 5 \times 8$ (B) $5 \times 5 \times 5 \times 4 \times 2$
(C) $5 \times 5 \times 5 \times 2 \times 2 \times 2$ (D) $10 \times 10 \times 10$
30. The decimal equivalent of $12\frac{1}{16}$ is :
(A) 12.625 (B) 12.6025 (C) 12.0625 (D) 12.0525
31. Simplifying $3(13 + 6 \times 7) \div (11 \times 3) (12 - 4 \times 2)$ gives :
(A) 0 (B) 1 (C) 2 (D) 9
32. The sum of 7.7, 7.07, 7.007 and 77.0077 is :
(A) 98.7807 (B) 98.7847 (C) 98.7877 (D) 98.7777
33. A buys a radio at $\frac{3}{4}$ th of its marked price and sells it at 20% more than the marked price. What is the percentage profit of A?
(A) 30% (B) 45% (C) 60% (D) 75%
34. The smallest four digit number which is divisible by 7 is :
(A) 1101 (B) 1108 (C) 1001 (D) 1007
35. What is the difference between the largest number of 7 digits and the smallest number of 4 digits?
(A) 9990999 (B) 9993999
(C) 9996999 (D) 9998999
36. Sum of greatest common factor (HCF) and least common multiple (LCM) of 45, 60 and 75
(A) 330 (B) 960 (C) 915 (D) 630
37. If $15 - 15\% \times 15 \times 6 = x$, then the value of x is # :
(A) 6 (B) 0 (C) 9 (D) 84
38. If a number B is 10% less than another number C and C is 5% more than 150, then the value of B is :
(A) 157.85 (B) 153.85 (C) 151.75 (D) 141.75
39. A park 1500 m long and 750 m is wide. A cyclist has to make four rounds of this park. 4.5 kms. How much time will it take at the speed of m/hr ?
(A) 40 hr (B) 20 hr (C) 10 hr (D) 4 hr
40. After traveling for $4\frac{1}{2}$ hours we reached our destination at 2.45 p.m. Arrived at What time did we start the journey?
(A) 9 : 00 a.m. (B) 10 : 00 a.m.
(C) 10 : 15 : a.m. (D) 8 : 15 a.m.
41. Which of the following statement is true ?
(A) Zero is an odd number.
(B) Zero is an even number.
(C) Zero is a prime number.
(D) Zero is neither odd nor even number.
42. How many rectangular tiles of size 10×8 cm are required to cover the floor of a hall $12 \text{ m} \times 10 \text{ m}$?
(A) 12,000 (B) 15,000
(C) 10,000 (D) 18,000

Mathematics

26. A sum of ₹ 600 amounts to ₹ 720 in 4 years at simple interest. If the rate of interest is increased by 2%, what will the amount become in 4 years?
(A) ₹ 648 (B) ₹ 768 (C) ₹ 668 (D) ₹ 968
27. A wire is $2\frac{3}{4}$ m long, it breaks into two parts. One part is $\frac{5}{8}$ m more than the other part. The length of the longer part of the wire is :
(A) $1\frac{11}{16}$ m (B) $1\frac{1}{16}$ m (C) 2 m (D) $\frac{3}{4}$ m
28. A number is always given by subtracting the sum of its digits from a number. The result will be divided by :
(A) From 2 (B) From 5 (C) From 8 (D) From 9

43. Find the difference between the largest and the smallest number of 5 digits formed using 0, 3, 6, 7 and 9 (without repetition) :
 (A) 93951 (B) 67061 (C) 66951 (D) 60840
44. 84% is equal to :
 (A) $\frac{42}{100}$ (B) $\frac{42}{50}$ (C) $\frac{84}{225}$ (D) 8.4
45. In how many years will an amount of ₹ 3500 amount to ₹ 4130 at simple interest at 6% per annum?
 (A) 4 years (B) 3 years
 (C) 6 years (D) 5 years
46. The length of a fish tank is 40 cm, breadth 60 cm and height 50 cm. It contains 50 liters of water. How many liters of water will have to be added to fill this tank completely with water?
 (A) 50 liters (B) 60 liters
 (C) 70 liters (D) 120 liters
47. The following pictograph shows the number of plants sold by a nursery from Monday to Friday.

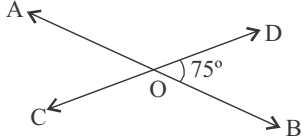
Day	Remaining plant
Monday	□□
Tuesday	□□□□
Wednesday	□□□□□
Thursday	□□□
Friday	□□□□□

□ = 20 Plants

The total number of plants sold from Monday to Friday is :

- (A) 19 (B) 190 (C) 250 (D) 380
48. The largest and second largest of the following fractions are respectively :
 $\frac{5}{6}, \frac{3}{4}, \frac{1}{2}, \frac{2}{3}, \frac{3}{5}$
 (A) $\frac{3}{4}$ and $\frac{1}{2}$ (B) $\frac{5}{6}$ and $\frac{3}{4}$
 (C) $\frac{5}{6}$ and $\frac{3}{5}$ (D) $\frac{3}{5}$ and $\frac{2}{3}$
49. In which of the following the lengths are arranged in decreasing order ?
 (A) 80 dm 8 cm, 8500 mm, 8 m, 800 cm 8mm
 (B) 8 m, 80 dm 8 cm, 8500 mm, 800 cm 8 mm
 (C) 8500mm, 80 dm 8 cm, 800 cm 8 mm, 8 m
 (D) 8500 mm, 800 cm 8 mm, 80 dm 8 cm, 8 m
50. What is the average of the first 10 even natural numbers ?
 (A) 9 (B) 10 (C) 11 (D) 13

51. If 15 men can do a piece of work in 48 days, how many men are required to finish the same work in 30 days?
 (A) 21 (B) 20 (C) 24 (D) 22
52. One 300 m. A long train crosses a bridge of length 500 m in 8 sec. What is the time taken by the same train to cross a bridge of length 600 m ?
 (A) 8 second (B) 9 second (C) 7 second (D) 10 second
53. If $x = \frac{1}{2 + \frac{1}{2}}$, then the value of $\frac{1}{x}$ is :
 (A) $\frac{2}{5}$ (B) $\frac{5}{2}$ (C) $\frac{3}{5}$ (D) $\frac{1}{2}$
54. 51 liters and 750 ml of milk are filled in 23 bottles of the same size. The amount of milk in 16 such bottles is :
 (A) 37 liter and 600 ml (B) 34 liter and 400 ml
 (C) 35 liter (D) 36 liter
55. What distance will a car traveling at 22.5 m/s cover in 50 minutes ?
 (A) 112.5 km (B) 11.25 km (C) 56.25 km (D) 67.5 km
56. If one orange costs ₹ five and a half and one kilogram of apple costs ₹ 80, then what will be the cost of one and a half dozen oranges and one and three-fourth kilogram of apples ?
 (A) ₹ 219 (B) ₹ 229 (C) ₹ 239 (D) ₹ 209
57. The difference between the place value of 5 in 29503 and the face value of 7 in 32071 is :
 (A) 43 (B) 430 (C) 493 (D) 2
58. The average of 13 results is 68. The average of the first seven is 63 and that of the last seven is 70, then the result of the seventh is :
 (A) 94 (B) 73.5 (C) 65.5 (D) 47
59. Find the missing number in the box in the following ratio.
 □ : 5 :: 12 : 60
 (A) 1 (B) 4 (C) 6 (D) 2
60. Sonu draws a circle whose radius is four times the diameter of the circle drawn by Babita. If the radius of the circle drawn by Babita is 10 m, then the diameter of the circle drawn by Sonu will be :
 (A) 160 m (B) 300 m (C) 320 m (D) 260 m
61. How is the number 95 written in Roman numerals ?
 (A) CXV (B) XVC (C) XCV (D) VXC
62. Which of the following numbers is not a perfect square ?
 (A) 3136 (B) 12544 (C) 1296 (D) 28832
63. The ratio of females to males in a village is 3 : 5. If the number of females is 40 less than the number of males, then what is the total number of females and males ?
 (A) 100 (B) 160 (C) 200 (D) 500
64. In a right angled triangle, if the length of the base is 8 cm and the height is 6 cm, then the length of the hypotenuse is :
 (A) 10 cm (B) 14 cm (C) 2 cm (D) 48 cm

65. The difference between two supplementary angles is 20° . Calculate the values of both the angles.
 (A) $70^\circ, 90^\circ$ (B) $85^\circ, 95^\circ$ (C) $105^\circ, 85^\circ$ (D) $100^\circ, 80^\circ$
66. The angle formed between the hands of a clock at exactly 9 O'clock is :
 (A) Acute angle (B) Right angle
 (C) Obtuse angle (D) None of these
67. The ratio of boys and girls in a school is 5 : 4. If the number of boys is 2500, then the number of girls will be :
 (A) 2000 (B) 1600 (C) 1400 (D) 3000
68. The edge of a cube is 5 cm, then the total surface area of that cube will be :
 (A) 150 cm (B) 150 m^3 (C) 150 m^2 (D) 150 cm^3
69. In the following figure the measure of $\angle AOD$ is :
- 
- (A) 95° (B) 100° (C) 110° (D) 105°
70. A dividend of ₹ 1200 is divided among A, B and C in such a way that A receives twice as much as B, who receives $\frac{1}{5}$ of the amount received by C. The amount received by C is :
 (A) ₹ 700 (B) ₹ 750 (C) ₹ 800 (D) ₹ 825
71. Which is the smallest number among the following ?
 (A) 7413 (B) 7130 (C) 7985 (D) 7545
72. The value of 221° Fahrenheit ($^\circ\text{F}$) in degree Celsius ($^\circ\text{C}$) is:
 [Use $C = \frac{5}{9}(F - 32)$]
 (A) 105°C (B) 93.3°C (C) 100°C (D) 102°C
73. The diameter of a circle is :
 (A) twice the radius (B) half of the radius
 (C) equal to the radius (D) one-third of the radius
74. Find the sum of the interior angles of a regular polygon of 9 sides :
 (A) 360° (B) 720° (C) 1260° (D) 1440°
75. An angle whose measure lies between 0° and 90° is called an angle :
 (A) right angle (B) obtuse angle
 (C) acute angle (D) none of these

English

Direction (Q. No. 76 to 80)

Read the passage carefully and answers the following questions:

There are only two simple rules to follow to lose weight or to maintain a healthy weight.

They are to eat a balanced diet with less fat and sugar and to exercise more. You don't have to starve to lose weight. If you eat less sugar, cakes, biscuits and eat more fruits and vegetables and drink plenty of water, you will lose weight and be healthier. Go for a walk or cycling every day. Be more active instead of watching television or playing video games.

76. How can we remain healthy ?
 (A) By eating biscuits only
 (B) By doing exercise only
 (C) By eating a balanced diet and doing exercise
 (D) By eating more fruits
77. What do we have to eat more to lose weight ?
 (A) Sugar and cakes (B) Fruits and vegetables
 (C) Biscuits and sugar (D) Biscuits and fruits
78. What do we have to drink in plenty to remain healthier ?
 (A) Colas (B) Fruit juice
 (C) Water (D) Vegetable juice
79. Go for a walk or cycling every day.
 Identify the part of speech for 'walk' from the given sentence.
 (A) Pronoun (B) Adjective
 (C) Verb (D) Noun
80. Which word is opposite in meaning to the word, 'active' ?
 (A) Dull (B) Inactive
 (C) Interested (D) Energetic
81. Fill in the blanks by choosing the appropriate articles :
 camel can golong distance without water.
 (A) An, a (B) A, a (C) The, the (D) no article
82. Find the 'correct subject' from the following sentence :
 The girl ate the mango.
 (A) the girl (B) ate
 (C) the mango (D) None
83. Choose the correct option to fill in the blank.
 If I meet him, I give him your message.
 (A) could (B) will
 (C) should (D) would
84. Identify the sentence in which 'Simile' is used :
 (A) The moon is a white balloon.
 (B) She is as fresh as a dewdrop.
 (C) Life is a roller coaster.
 (D) The stars are twinkling brightly
85. Which of the following words is an adjective?
 (A) Advice (B) Agree (C) Angry (D) Arrival
86. Choose the correct option to fill in the blank.
 Among the three little cats, the first was _____ and the second was smaller.
 (A) small (B) more small
 (C) most smallest (D) most small
87. Give the proper relative Pronoun in the following sentence:
 All.....glitters is not gold.
 (A) which (B) that (C) who (D) whom
88. Choose the correct collective noun for the given blank.
 The boys gathered a bundle of
 (A) sticks (B) people (C) beads (D) houses
89. Choose the correct option to fill in the blank.
 No other book in the series captivated readers as _____ as the final installment.
 (A) more (B) many (C) much (D) most

90. Identify the tense of the following sentence:
 "I have finished my homework already."
 (A) Present Perfect Tense
 (B) Past Perfect Tense
 (C) Present Simple Tense
 (D) Present Continuous Tense
91. Choose the correct meaning of the idiom underlined in the sentence :
 "The exam was a piece of cake for him."
 (A) Something very sweet
 (B) Something very easy
 (C) A birthday celebration
 (D) A difficult task
92. Choose the correct option to fill in the blank.
 There a big park in front of our house.
 (A) are (B) may be (C) is (D) were
93. Find the correctly spelt word from the options given below :
 (A) Receive (B) Recieve
 (C) Riceive (D) Receeve
94. Select the synonym of the given word.
 Imprudent :
 (A) Cautious (B) Careless (C) Wise (D) Discreet
95. Select the one which is opposite in meaning of the given word.
 Premium :
 (A) Superior (B) Inferior (C) Choice (D) Excellent

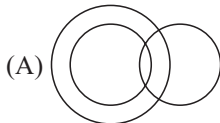
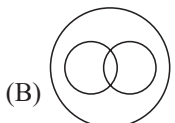
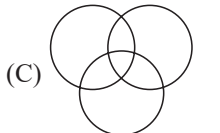
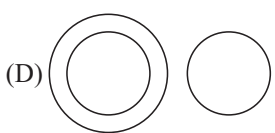
Direction (Q. No. 96 to 99)

Choose the correct alternative and fill in the blanks in the following sentence.

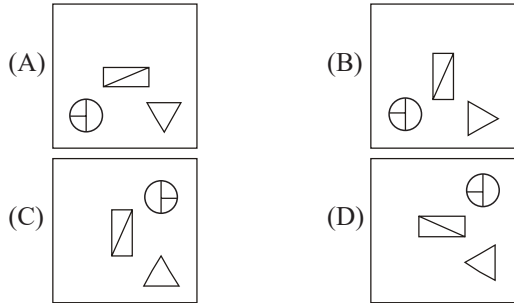
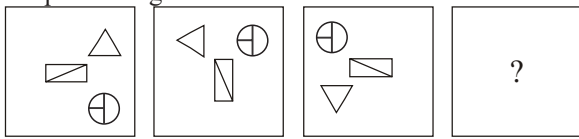
96. He is the friend I trust most.
 (A) him (B) whom (C) which (D) who
97. During winter evenings, a cup of coffee is to mug of tea.
 (A) prefer (B) more prefer
 (C) preferable (D) more preferable
98. The priest was innocent he could not prove it.
 (A) and (B) but (C) for (D) so
99. Dubai is like an oasis the middle of a desert.
 (A) to (B) in (C) on (D) over
100. Choose the correct question tag for the following statement.
 You have locked the gate, isn't it ?
 (A) No substitution (B) did you
 (C) haven't you (D) have you

Intelligence

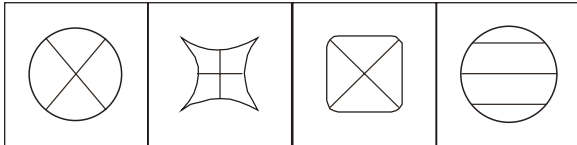
101. In a certain language, WOMEN is written as OWMNE. How will NOTES be written in that code language ?
 (A) TONES (B) SETNO (C) ONTSE (D) ONETS
102. Select the related word from the given alternatives :
 Dog : Rabies :: Mosquito : ?
 (A) Bite (B) Malaria (C) Death (D) Plague
103. Select the option that is related to the third term in the same way as the second term is related to the first term.
 8547 : 777 :: 11110 : ?
 (A) 1010 (B) 1001 (C) 5478 (D) 8237

104. Five subjects are given, out of which four are alike in some way and one is different, select the odd one out.
 Physics, Chemistry, Geography, Botany, Biology
 (A) Botany (B) Chemistry
 (C) Physics (D) Geography
105. Select the number that can come in place of (?) in the following series.
 2, 7, 14, 23, ?, 47
 (A) 21 (B) 38 (C) 34 (D) 28
106. In the following question, replace the sign (?) in the given number series and choose the correct option from the options given below :
 1, 2, 6, 7, 21, 22, 66, 67, ?
 (A) 70 (B) 134 (C) 201 (D) 301
107. In the question given below there is a relation between the pairs of words. Identify the pair of words from the alternatives given below that have the same relationship :
 Typewriter : Letter
 (A) Hammer : Nail (B) Sea : Wave
 (C) Computer : Automation (D) Piano : Notes of music
108. Village P is to the east of village Q. Village R is to the north of village P. Village S is to the west of village R. Village S is towards which direction of village P ?
 (A) South-East (B) South-West
 (C) North-West (D) North-East
109. If in the following equation "+" and "-" are interchanged, "x" and "÷" are interchanged, and the digits "3" and "7" are also interchanged. What will be the value of the following equation if it is replaced by ?
 $83 \times 7 - 79 + 63 \div 7$
 (A) -133 (B) -350 (C) 244 (D) 511
110. Arrange the following words in a meaningful sequence :
 1. Red Fort 2. World 3. Delhi 4. India
 5. Universe
 (A) 1, 3, 4, 5, 2 (B) 1, 3, 4, 2, 5
 (C) 1, 4, 3, 2, 5 (D) 1, 3, 2, 4, 5
111. Select the one which is different from the other three options:
 (A) Tailor - Needle (B) Writer - Book
 (C) Carpenter - Furniture (D) Cobbler - Shoes
112. Which of the following Venn diagrams best represents the relationship between mothers, women and writers ?
 (A)  (B) 
 (C)  (D) 
113. Which of the following pairs has the same relation as Australia : Continent ?
 (A) Engine : Train (B) River : Bank
 (C) Vikrant : Ship (D) Yuri Gagarin : Space

114. Which of the following answer figures completes the series of question figures?



115. Given below are four pictures marked as 1, 2, 3 and 4. Three of the given four pictures are alike in a certain way, while one is different. Pick the odd one out.



- (1) (2) (3) (4)
 (A) 1 (B) 2 (C) 3 (D) 4

116. If the letters given below are rearranged, the meaningful word that will be formed is :

- TAOBIROPN
 (A) PROMOTION (B) PROFOUND
 (C) PROBATION (D) PROMINENT

117. Select the odd one from the following list of colours.

- Orange, Violet, Brown, Red, Green, Blue, Yellow
 (A) Orange (B) Brown (C) Green (D) Blue

117. What is the next term in the following series given ?

- 11, 13, 17, 23, 31, 41, 53, 67, 83, ?
 (A) 107 (B) 109 (C) 111 (D) 101

119. Study the following alphabet sequence and answer the question given below :

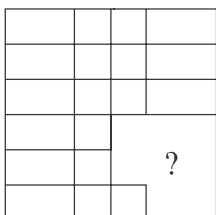
(Left) M R T V S P B Y N G Q J (Right)

Which letter is second to the right of seventh from the right end ?

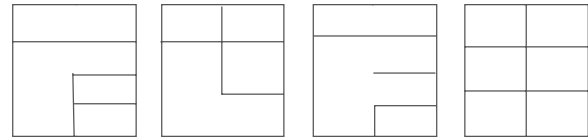
- (A) P (B) B (C) N (D) Y

120. In this question, a question figure is given with one part missing. Consider the answer figures (A), (B), (C) and (D) of question and find out the answer figure which should be inserted in the missing part of the question figure to complete the pattern without change of direction can be seated

Question Figure :



Answer Figures :

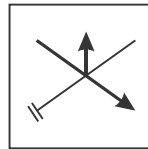


121. Which one of the following is different from the other, state ?

- (A) Owl (B) Parrot (C) Eagle (D) Hawk

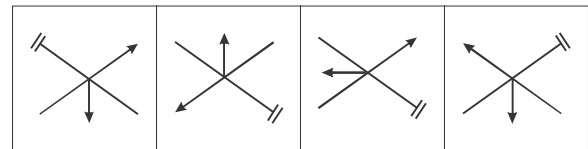
122. In this question a question figure is shown, followed by four answer figures marked (A), (B), (C) and (D). When a mirror is placed along XY, select the correct mirror image of the question figure from the answer figure.

Question Figure :



X ~~~~~ Y

Answer Figures :



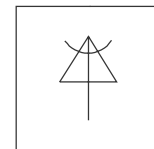
123. Write the correct number from the following options in place of “?” in the diagram.

6	4	7
1	2	5
7	6	?

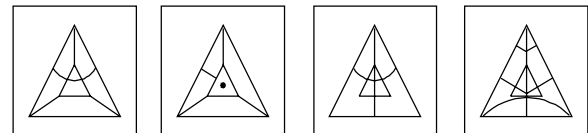
- (A) 8 (B) 9 (C) 13 (D) 12

124. In this question a question figure is given and four answer figures marked (A), (B), (C) and (D) are given at the bottom. Select the figure in which the question figure is hidden/embedded from the answer figures.

Question Figure :



Answer Figures :



125. A is the sister of B, C is the mother of B. D is the father of C. E is the mother of D, then how is A related to D ?

- (A) grandmother (B) grandfather
 (C) granddaughter (D) daughter

