

Test Form No.

टेस्ट फॉर्म संख्या

555 PL 6

CY-2013

GK - 1148198

Time Allowed : 2 Hours (For V.H. Candidates : 2 hrs. 40 min.)

Maximum Marks : 200

निर्धारित समय : 2 घण्टे (दृष्टिबाधित उम्मीदवारों के लिए : 2 घण्टे 40 मिनट)

अधिकतम अंक : 200

Read the following instructions carefully before you begin to answer the questions. This Booklet contains questions in English as well as in Hindi.

प्रश्नों के उत्तर देने से पहले निम्नलिखित अनुदेशों को ध्यान से पढ़ लें। इस पुस्तिका में प्रश्न अंग्रेजी तथा हिन्दी दोनों में दिये गये हैं।

INSTRUCTIONS TO CANDIDATES

उम्मीदवारों के लिए अनुदेश

- This Booklet contains 200 questions in all comprising the following four parts :
Part - A : General Intelligence & Reasoning (50 Questions)
Part - B : General Awareness (50 Questions)
Part - C : Quantitative Aptitude (50 Questions)
Part - D : English Comprehension (50 Questions)
 - In questions set bilingually in English and Hindi, in case of discrepancy, the English version will prevail.
 - All questions are compulsory and carry equal marks.
 - The paper carries negative marking. 0.25 marks will be deducted for each wrong answer.
 - Before you start to answer the questions you must check up this Booklet and ensure that it contains all the pages (1-32) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.
 - You will be supplied the Answer-Sheet separately by the Invigilator. You must complete and code the details of Name, Roll Number, Ticket Number and Test Form Number on Side-I of the Answer-Sheet carefully. You must also put your signature and Left-Hand thumb impression on the Answer-Sheet at the prescribed place before you actually start answering the questions. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark. (V.H. candidates will have to ensure that these details are filled in by the scribe. However, all V.H. candidates must put their left-hand thumb impression at the space provided in the Answer-Sheet. Those V.H. candidates who can sign should also put their signatures in addition to thumb impression.)
 - Answers must be shown by completely blackening the corresponding ovals on Side-II of the Answer-Sheet against the relevant question number by Black/Blue Ball-Point Pen Only. Answers which are not shown by Black/Blue Ball-Point Pen will not be awarded any mark.
 - A machine will read the coded information in the OMR Answer-Sheet. In case the information is incomplete or different from the information given in the application form, such candidate will be awarded 'ZERO' mark.
 - The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
 - Failure to comply with any of the above Instructions will render a candidate liable to such action/penalty as may be deemed fit.
 - The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 32), which you should read carefully before actually answering the questions.
 - Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
 - In lieu of Question Nos. 39 to 50 and 144 to 150, relating to figural portions, alternate questions have been provided to be attempted by V.H. Candidates only.
 - No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions.
 - "Mobile phones and wireless communication devices are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature."
- इस पुस्तिका में कुल 200 प्रश्न हैं, जिनमें निम्नलिखित चार भाग शामिल हैं :
भाग-क : सामान्य बुद्धिमत्ता एवं तर्कशक्ति (50 प्रश्न)
भाग-ख : सामान्य जानकारी (50 प्रश्न)
भाग-ग : परिमाणात्मक अभिरुचि (50 प्रश्न)
भाग-घ : अंग्रेजी परिज्ञान (50 प्रश्न)
 - अंग्रेजी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेजी विवरण मान्य होगा।
 - सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
 - प्रश्न पत्र में नकारात्मक अंकन होगा। हर गलत उत्तर के लिए 0.25 अंक काटा जाएगा।
 - प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जाँच करके देख लें कि इसमें पूरे पृष्ठ (1-32) हैं तथा कोई पृष्ठ कम या दुबारा तो नहीं आ गया है। यदि आप इस पुस्तिका में कोई त्रुटि पाएँ, तो तत्काल इसके बदले दूसरी पुस्तिका ले लें।
 - निरीक्षक द्वारा आपको उत्तर-पत्रिका अलग से दी जाएगी। उत्तर-पत्रिका के Side-I में नियमावली के अनुसार ध्यानपूर्वक अपना नाम, रोल नम्बर, टिकट नम्बर और टेस्ट फॉर्म संख्या अवश्य लिखें। प्रश्नों के उत्तर वास्तव में शुरू करने से पहले उत्तर-पत्रिका पर निर्धारित स्थान में आप अपने हस्ताक्षर एवं बाएँ हाथ के अंगूठे का निशान भी अवश्य लगाएँ। उपर्युक्त अनुदेशों का पूरी तरह अनुपालन किया जाए, अन्यथा आपकी उत्तर-पत्रिका को जाँचा नहीं जाएगा और 'शून्य' अंक दिया जाएगा। (दृष्टिबाधित उम्मीदवार सुनिश्चित करें कि यह विवरण लिपिक द्वारा भरा जाए। परन्तु सभी दृष्टिबाधित उम्मीदवार उत्तर-पत्रिका में निर्धारित स्थान पर अपने बाएँ हाथ के अंगूठे का निशान अवश्य लगाएँ। जो दृष्टिबाधित उम्मीदवार हस्ताक्षर कर सकते हैं, वे अंगूठे के निशान के अलावा अपने हस्ताक्षर भी कर दें।)
 - उत्तर-पत्रिका में सभी उत्तर Side-II में प्रश्न संख्या के सामने दिये गये सम्बन्धित अण्डाकार खानों को केवल काले/नीले बॉल-पॉइंट पेन से पूरी तरह काला करके दिखाएँ। जो अण्डाकार खाने काले/नीले बॉल-पॉइंट पेन से नहीं भरे जाएँगे, उनके लिए कोई अंक नहीं दिया जाएगा।
 - ओ.एम.आर. उत्तर-पत्रिका में भरी गई कूट सूचना को एक मशीन पढ़ेगी। यदि सूचना अपूर्ण है अथवा आवेदन प्रपत्र में दी गई सूचना से भिन्न है, तो ऐसे अभ्यर्थी को 'शून्य' अंक दिया जाएगा।
 - परीक्षा-भवन छोड़ने से पहले परीक्षार्थी को उत्तर-पत्रिका निरीक्षक के हवाले कर देना चाहिए।
 - ऊपर के अनुदेशों में से किसी एक का भी पालन न करने पर उम्मीदवार पर विवेकानुसार कार्यवाही की जा सकती है या दण्ड दिया जा सकता है।
 - विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे (पृष्ठ संख्या 32) में छपे निर्देशों में दे दी गई है, इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें।
 - प्रश्नों के उत्तर जितनी जल्दी हो सके तथा ध्यानपूर्वक दें। कुछ प्रश्न आसान तथा कुछ कठिन हैं। किसी एक प्रश्न पर बहुत अधिक समय न लगाएँ।
 - आकृति से सम्बन्धित प्रश्न संख्या 39 से 50 एवं 144 से 150 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं।
 - कोई रफ कार्य उत्तर-पत्रिका पर नहीं करना है। रफ कार्य के लिए स्थान प्रश्नों नीचे दिया गया है।
 - "परीक्षा हॉलों/ कमरों में मोबाइल फोन तथा बेतार संचार साधन पूरी त निषिद्ध हैं। प्रत्याशियों को उनके अपने हित में सलाह दी जाती है। मोबाइल फोन/ किसी अन्य बेतार संचार साधन को स्विच ऑफ करके अपने पास न रखें। इस प्रावधान का अनुपालन न करने को परीक्षा अनुचित उपायों का प्रयोग माना जाएगा और उनके विरुद्ध कार्रवाई जाएगी, उनकी अभ्यर्थिता रद्द कर देने सहित।"

इस पुस्तिका की सील तब तक न खोलें जब तक कहा न जाए।

GENERAL INTELLIGENCE & REASONING

Directions : In question nos. 1 to 6, select the related word/ letters/number from the given alternatives.

1. Sheep : mutton :: Deer : ?
 (A) veal (B) meat
 (C) flesh (D) venison
2. Cobbler : Leather :: Tailor : ?
 (A) Thread (B) Cloth
 (C) Shirt (D) Draper
3. AB : ZY :: CD : ?
 (A) VU (B) WX (C) UV (D) XW
4. 11 : 132 :: ?
 (A) 15 : 250 (B) 10 : 100
 (C) 9 : 90 (D) 13 : 169
5. $\frac{1}{9} : \frac{1}{81}, \frac{1}{13} : ?$
 (A) $\frac{1}{127}$ (B) $\frac{1}{169}$
 (C) $\frac{1}{125}$ (D) $\frac{1}{120}$
6. FLOWER : REWOLF : FRUITS : ?
 (A) STRUIF (B) STUIRF
 (C) STIURF (D) STUIFR

Directions : In question nos. 7 to 12, find the odd number/ letters/number pair from the given alternatives.

7. (A) Wife (B) Bachelor
 (C) Widow (D) Spinster

8. (A) 121 (B) 88 (C) 97 (D) 132
9. (A) Dilution (B) Distribution
 (C) Dispersion (D) Diversion
10. (A) 120 (B) 6 (C) 24 (D) 64
11. (A) O (B) I (C) E (D) B
12. (A) BJLQ (B) TPDC
 (C) BKDF (D) OLTF
13. Arrange the following words as per order in the dictionary.
 (1) necrology
 (2) necromancy
 (3) necropolis
 (4) necrophilia
 (A) (2), (1), (4), (3) (B) (1), (2), (3), (4)
 (C) (1), (2), (4), (3) (D) (2), (1), (3), (4)
14. Which one of the given responses would be meaningful order of the following?
 (1) Plant
 (2) Seed
 (3) Fruit
 (4) Seedling
 (A) (3), (2), (4), (1) (B) (4), (2), (3), (1)
 (C) (2), (3), (1), (4) (D) (4), (1), (3), (2)

SPACE FOR ROUGH WORK

Directions : In question nos. 15 to 18, a series is given, with one term missing. Choose the correct alternative from the given ones, that will complete the series.

15. 7, 12, 22, 42, 82, ?
 (A) 143 (B) 173 (C) 162 (D) 183

16. ABC PQR DEF STU ?
 (A) GKL (B) VWX (C) GHI (D) IJK

17. 2, 3, 5, 9, 17, ?
 (A) 34 (B) 31 (C) 32 (D) 33

18. ACE, BDF, CEG, ?
 (A) DFE (B) DEF
 (C) DFH (D) DEH

19. If > denotes +, < denotes -, + denotes ÷, ^ denotes ×, - denotes =, × denotes > and = denotes <, choose the correct statement of the following:
 (A) $28 \div 4 \times 2 < 6 \times 4 \div 2$
 (B) $13 \div 7 < 6 \div 2 < 3 \times 4$
 (C) $9 \div 5 \div 4 = 18 \div 9 \div 16$
 (D) $9 < 3 < 2 > 1 \times 8 \wedge 2$

20. In a retail shop, there were 54 cupboards. In each cupboard, 28 racks were made. In each rack 10 boxes were kept. In each box 4 shirts were packed. One day 500 boxes were sold and 250 boxes were purchased. How many shirts were there on that day?
 (A) 60,380 (B) 59,360
 (C) 59,580 (D) 59,480

21. If PKROK is coded as 72962 and KRRPK as 29972 then how can NJMLZ be coded?
 (A) 45176 (B) 74314
 (C) 91572 (D) 51430

In a certain code language Sue Re Nik means She is grave, Pi Sor Re Nik means She is always smiling and Sor Re Zhi means Is always cheerful. What is the code used for the word smiling?
 (A) Sor (B) Nik (C) Re (D) Pi

23. Find the hidden meaningful word from the coded alphabets if the alphabets are in reverse order.
 (A) 26, 22, 15, 13, 11
 (B) 11, 15, 26, 13, 22
 (C) 15, 11, 22, 26, 13
 (D) 11, 22, 15, 13, 26

24. From the given alternatives select the word which cannot be formed using the letters given in the word.

MERCHANDISE
 (A) CHANGE (B) MESH
 (C) DICE (D) CHARM

25. If $1 + 4 = 9$, $2 + 8 = 18$, $3 + 6 = 15$ then $7 + 8 = ?$
 (A) 32 (B) 41 (C) 23 (D) 30

26. Mahesh is '60' years old. Ram is '5' years junior to Mahesh and '4' years senior to Raju. The youngest brother of Raju is Babu and he is '6' years junior to him. What is the age difference between Mahesh and Babu?
 (A) 06 (B) 18 (C) 15 (D) 13

27. If 'FATHER' is coded as 'HCVJGT' then how can 'SHIP' be coded as:
 (A) UKJR (B) TIJQ
 (C) UJKR (D) THKR

SPACE FOR ROUGH WORK

M - 60
 Ra - 55
 Rj - 51
 Ba - 45

28. Looking at a woman sitting next to him, Amit said, "She is the sister of the husband of my wife". How is the woman related to Amit?
 (A) Niece (B) Daughter
 (C) Sister (D) Wife

29. Select the correct combination of mathematical signs to replace * signs and to balance the given equation.
 $2 * 4 * 3 * 4 * 9$
 (A) $+ - = \div$ (B) $+ \times = - \div =$
 (C) $\times \div - =$ (D) $\times - + =$

30. From the given alternative words, select the word which can be formed using the letters of the given word.
 REPUTATION
 (A) TUTOR (B) PONDER
 (C) REQUIRE (D) RETIRE

31. $\frac{15}{20} \div \frac{4}{5} \times \frac{2}{3} \times \frac{8}{5} = ?$
 (A) 5 (B) 0 (C) 1 (D) 3

Directions : In question nos. 32 to 34, select the missing number from the given responses :

32.

| | | |
|---------------|----------------|----------------|
| 8 | 12 | 13 |
| 6 | 5 | 10 |
| $\frac{2}{4}$ | $\frac{8}{15}$ | $\frac{?}{18}$ |

 (A) 3 (B) 15 (C) 5 (D) 6

33.

| | | |
|----|----|----|
| 24 | 20 | 37 |
| 31 | 25 | ? |
| 26 | 36 | 19 |

 (A) 23 (B) 26 (C) 30 (D) 25

34.

| | | |
|----|----|---|
| 6 | 5 | 4 |
| 7 | 6 | 5 |
| 5 | 7 | 6 |
| 37 | 23 | ? |

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

One Statement is given followed by two Conclusions I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statement. Indicate your answer.

35. Most Indians are aware that they have a great heritage, but few would include science in it.
 Conclusion : I Many Indians consider science to have made Indian heritage great.
 II Many Indians are not aware that India has a great scientific heritage.

- (A) Neither Conclusions I nor II follow
- (B) Only Conclusion I follows
- (C) Only Conclusion II follows
- (D) Both Conclusions I and II follow

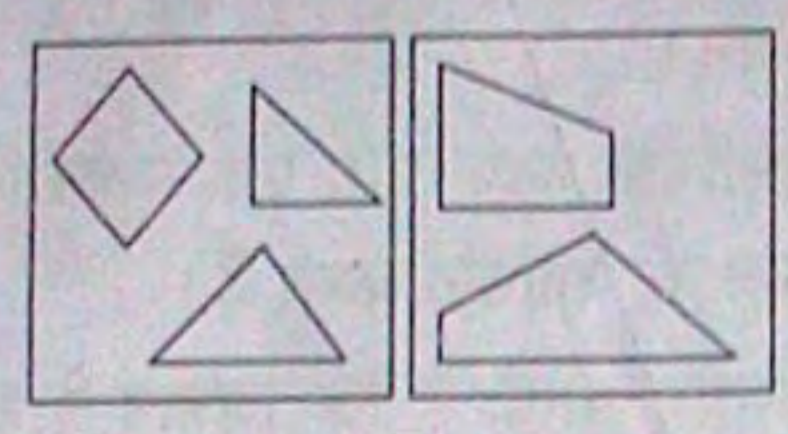
36. In each of the following question, there are two statements labelled as Assertion (A) and Reason (R).
 (A) Autism is a developmental disability.
 (R) Heridity and lower development of brain are the causes of the Autism.
 (A) (A) is false and (R) is true
 (B) Both (A) and (R) are false
 (C) Both (A) and (R) are true
 (D) (A) is true and (R) is false

37. Sharada started to move in the direction of south. After moving 15 meters, she turned to her left - twice and moved 15 meters each time. Now how far is she and in which direction from her starting point ?
 (A) 20 m. West (B) 15 m. East
 (C) 15 m. South (D) 30 m. East

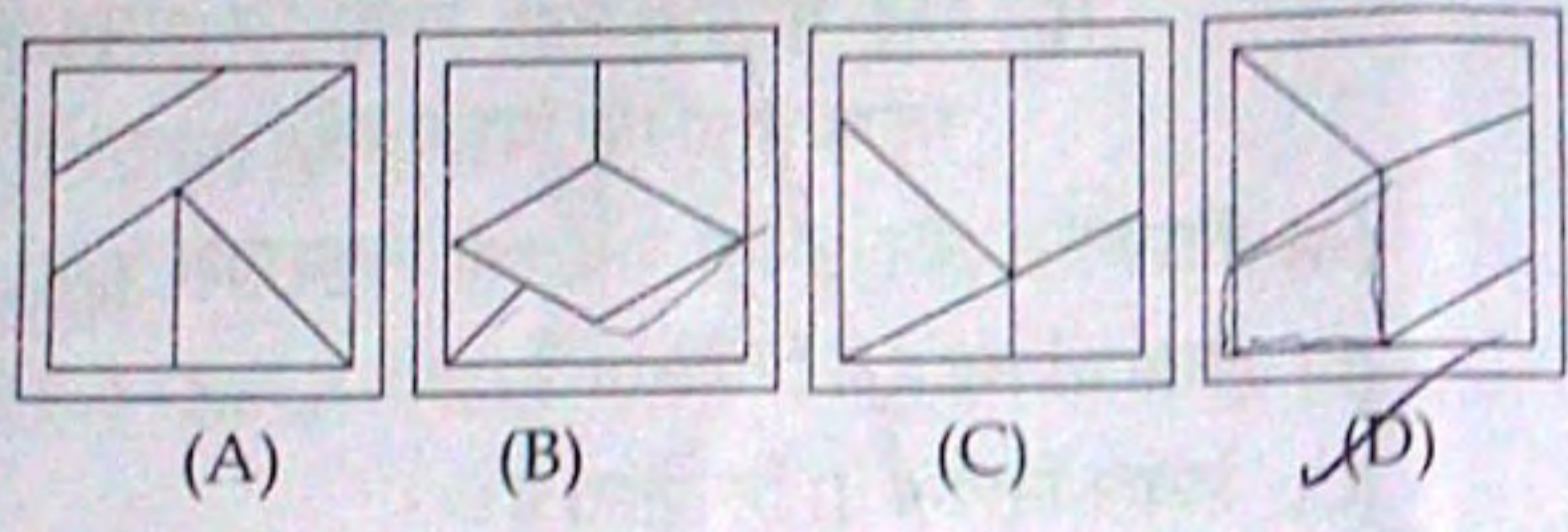
38. Sonia started from her house and travelled 4 km towards east. Then she turned left and travelled 6 km. Then she turned right and travelled 4 km. At what distance is she from starting point?
- (A) 10 km (B) 14 km
(C) 8 km (D) 5 km

39. Identify the answer figure from which the pieces given in the question figures have been cut.

Question figures

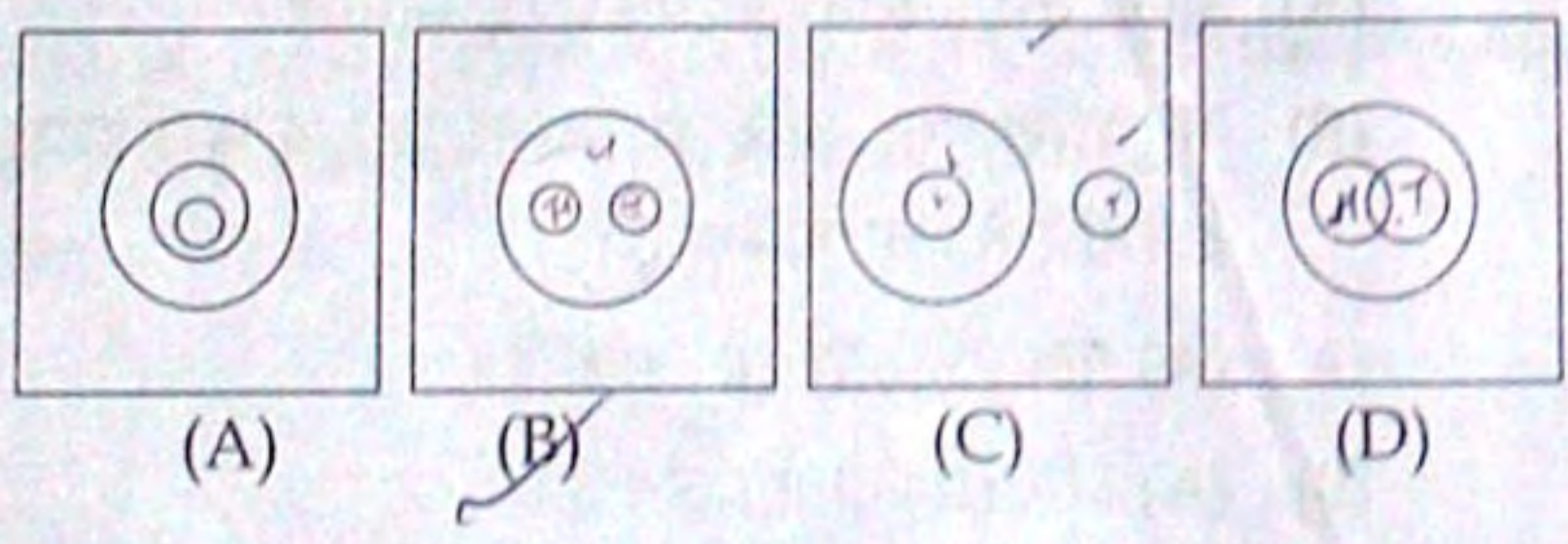


Answer figures



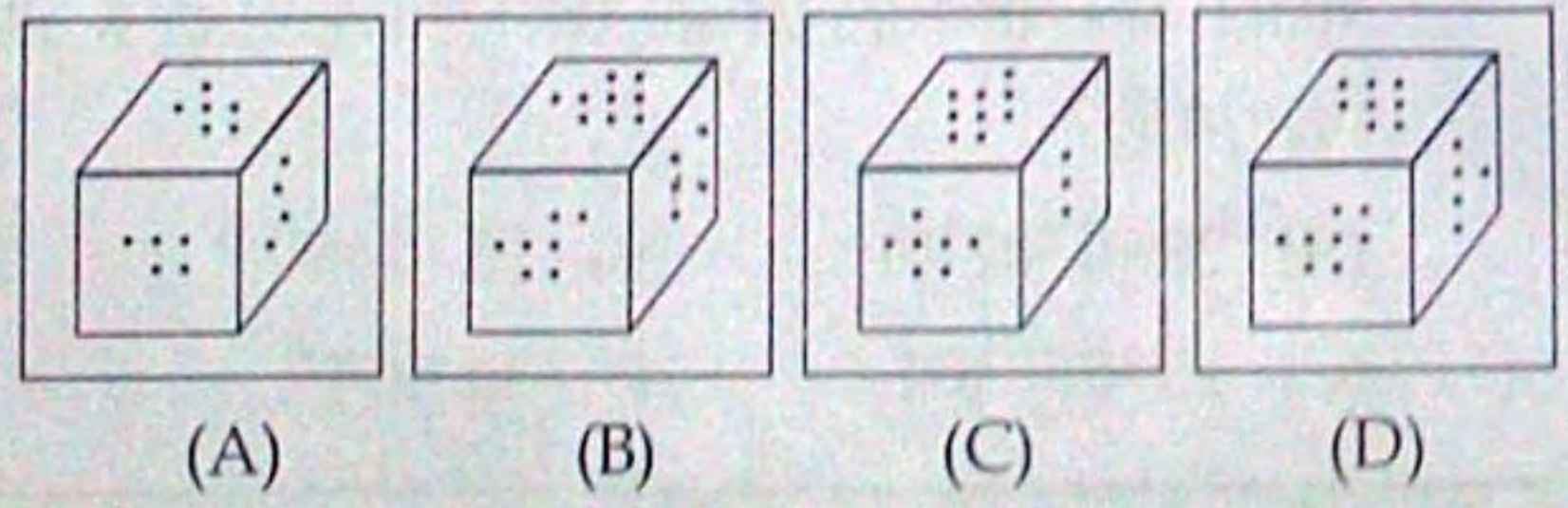
40. Which of the following diagrams represents the correct relationship between Herbivores, Tigers and Animals?

Answer figures



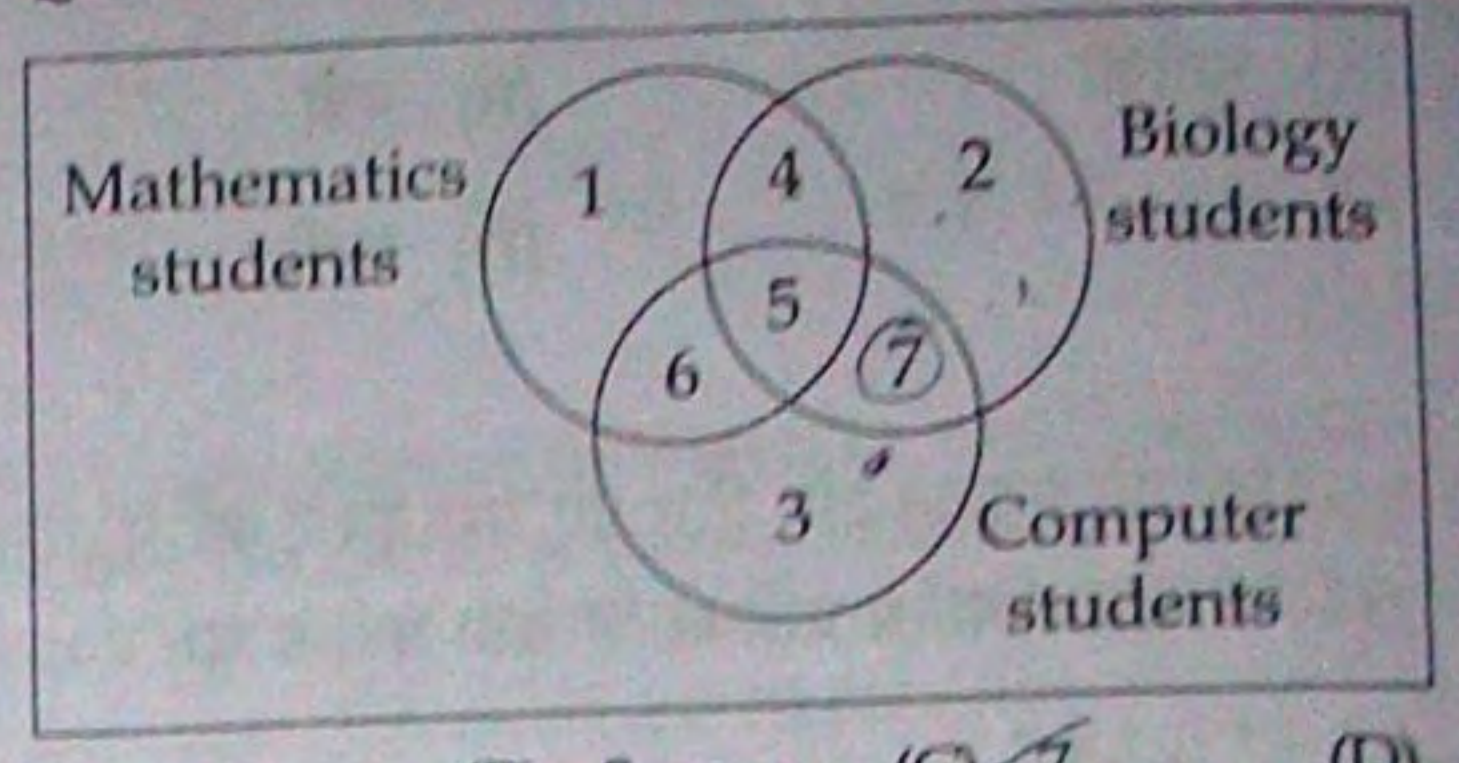
41. If the difference between the no. of dots on the opposite faces is 3, find out the figure which is correct?

Answer figures



42. Identify the region that represents students studying Biology and Computer not Mathematics.

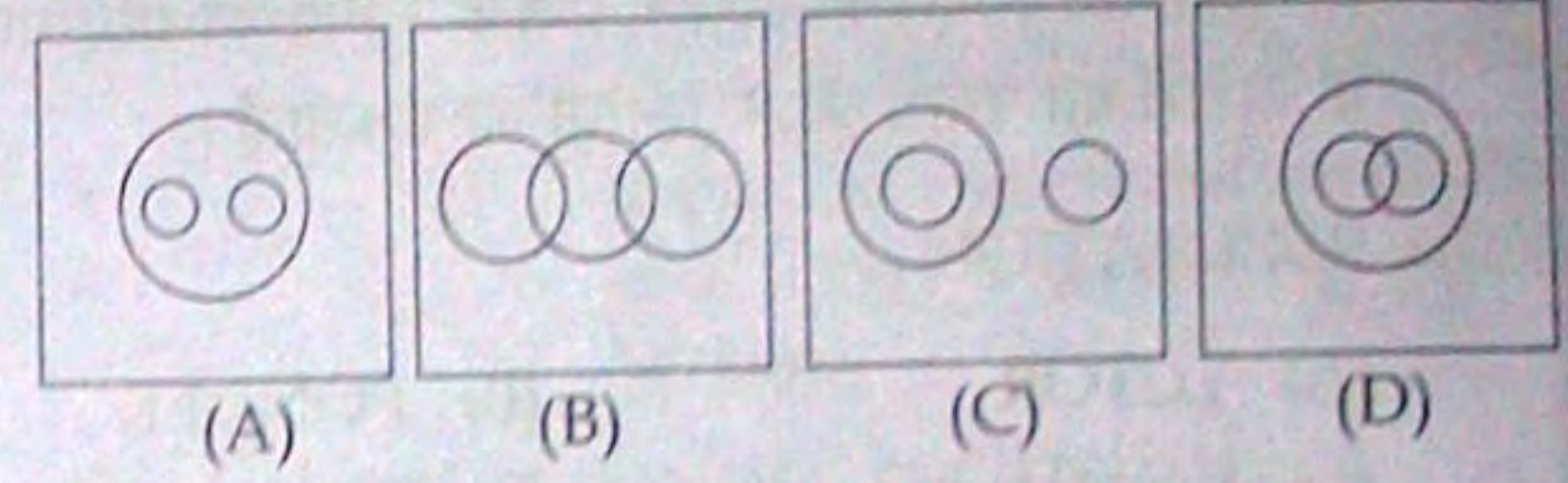
Question figure



- (A) 6 (B) 2 (C) 7 (D) 4

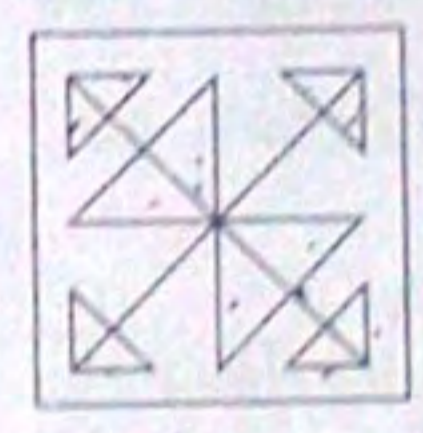
43. Which of the following diagrams represents the correct relationship between Books, Novels and Dictionaries?

Answer figures



44. Find out the number of triangles in this figure:

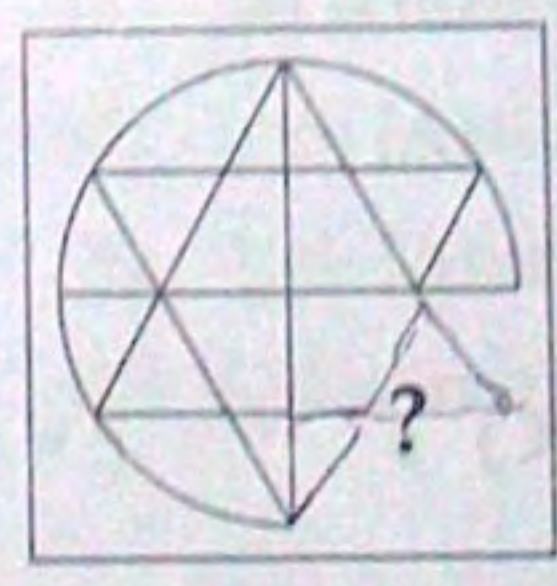
Question figure



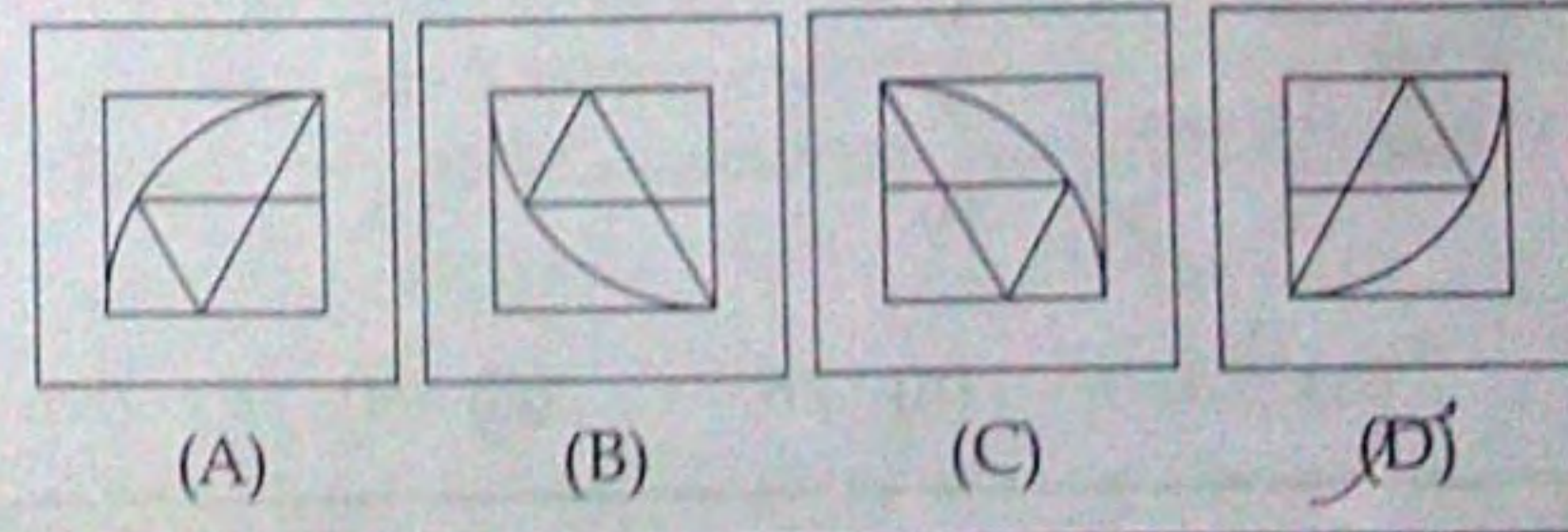
- (A) 18 (B) 12 (C) 14 (D) 16

Directions : In questions nos. 45 and 46, which answer figure will complete the pattern in the question figure?

45. Question figure

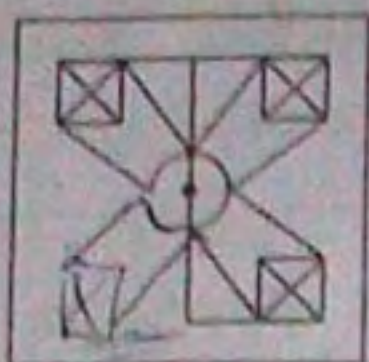


Answer figures

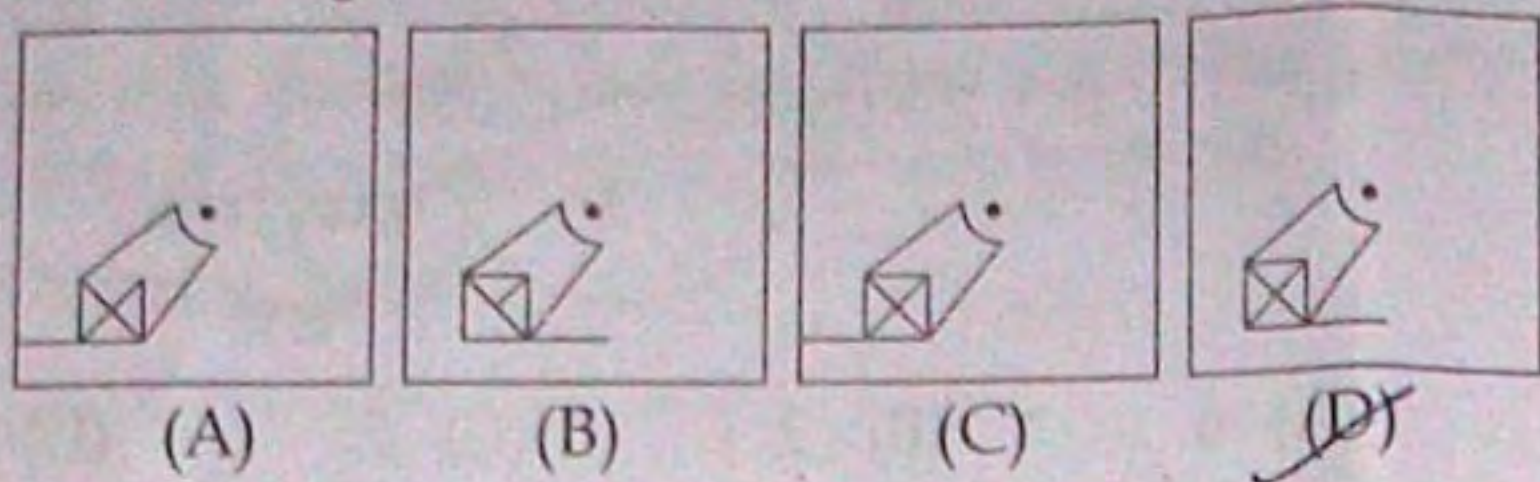


SPACE FOR ROUGH WORK

46. Question figure

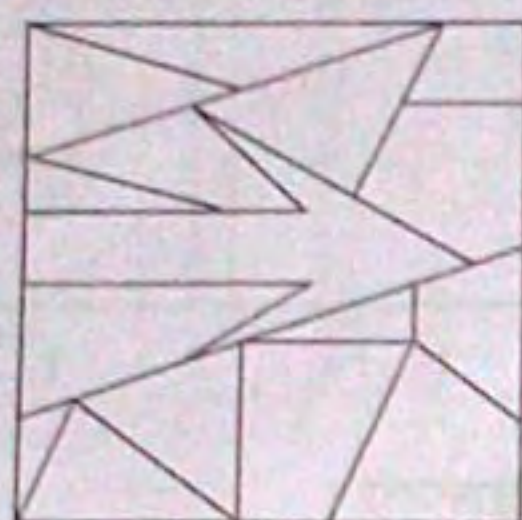


Answer figures

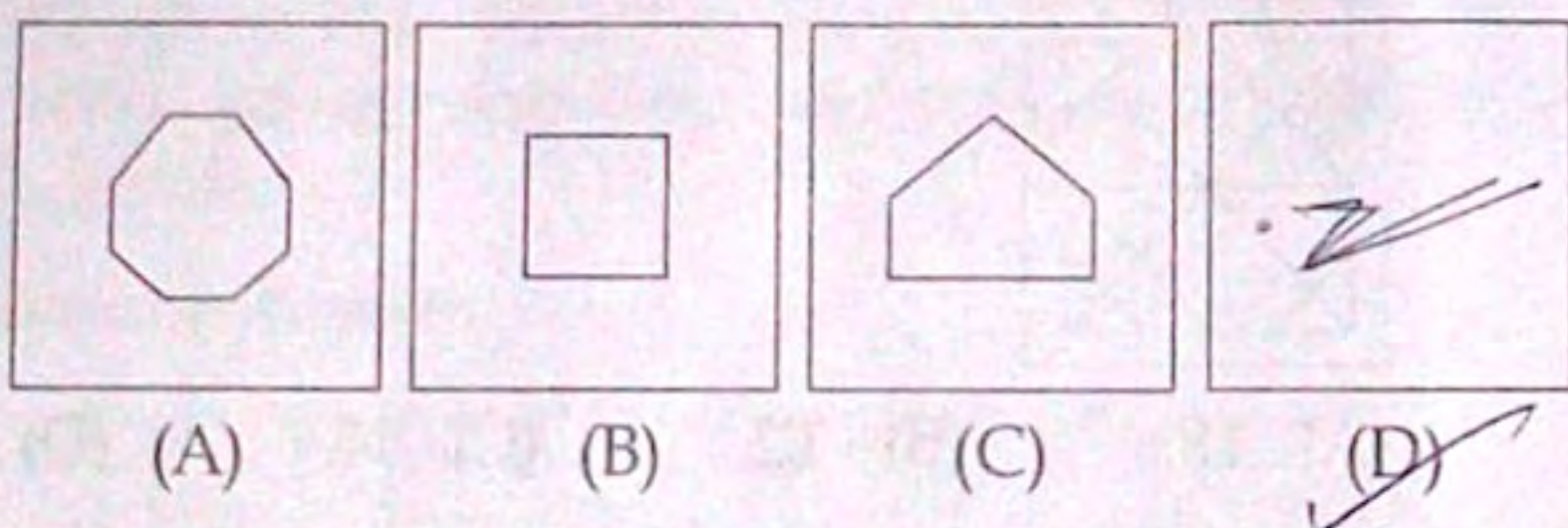


47. From the given answer figures, select the one which is hidden/embedded, in the question figure.

Question figure

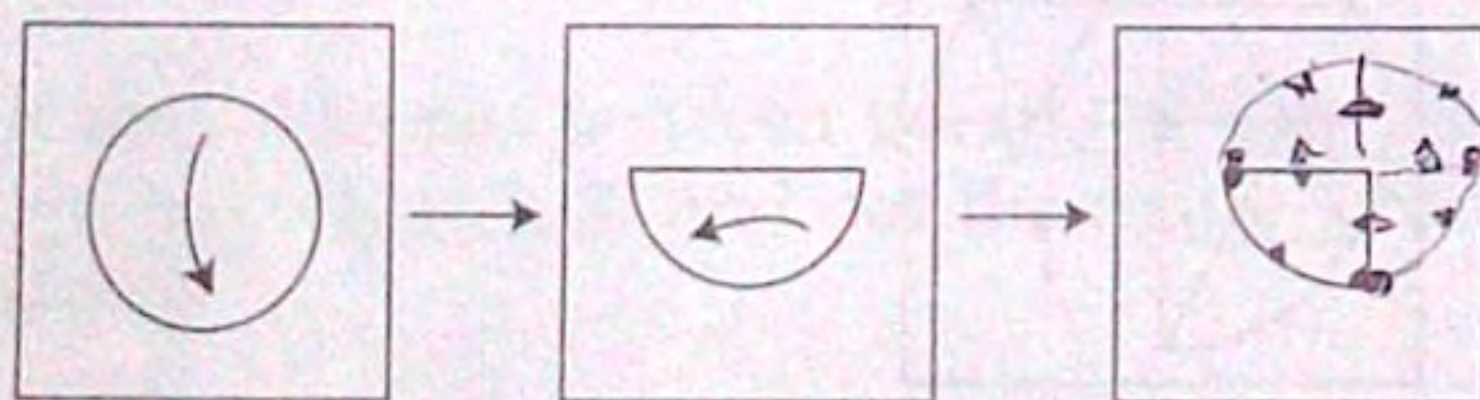


Answer figures

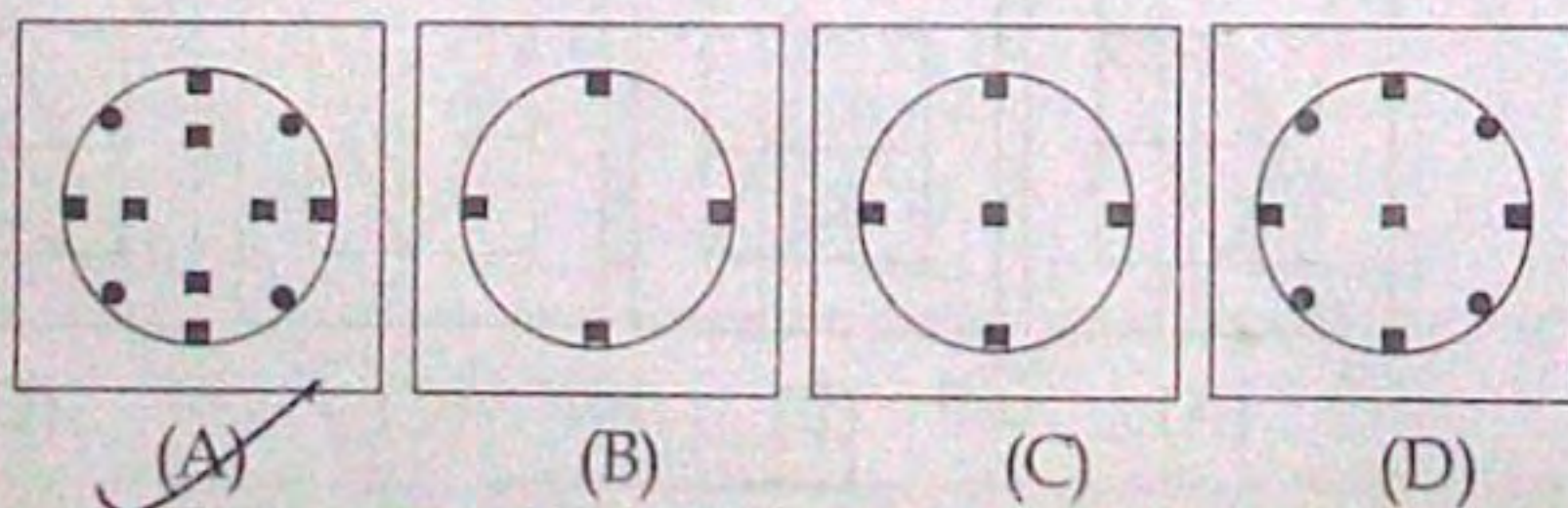


48. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question figure



Answer figures



49. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'M' can be represented by 42, 31. etc. and 'P' can be represented by 95, 88 etc. Similarly, you have to identify the set for the word given 'ROST'.

Matrix - I

| | | | | | |
|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 |
| 4 | K | L | M | N | O |
| 3 | L | M | K | O | N |
| 2 | N | O | L | M | K |
| 1 | M | N | O | K | L |
| 0 | O | K | N | L | M |

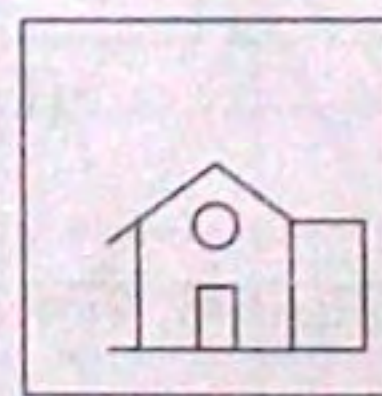
Matrix - II

| | | | | | |
|---|---|---|---|---|---|
| | 5 | 6 | 7 | 8 | 9 |
| 9 | P | Q | R | S | T |
| 8 | T | S | Q | P | R |
| 7 | R | T | S | Q | P |
| 6 | S | P | T | R | Q |
| 5 | Q | R | P | T | S |

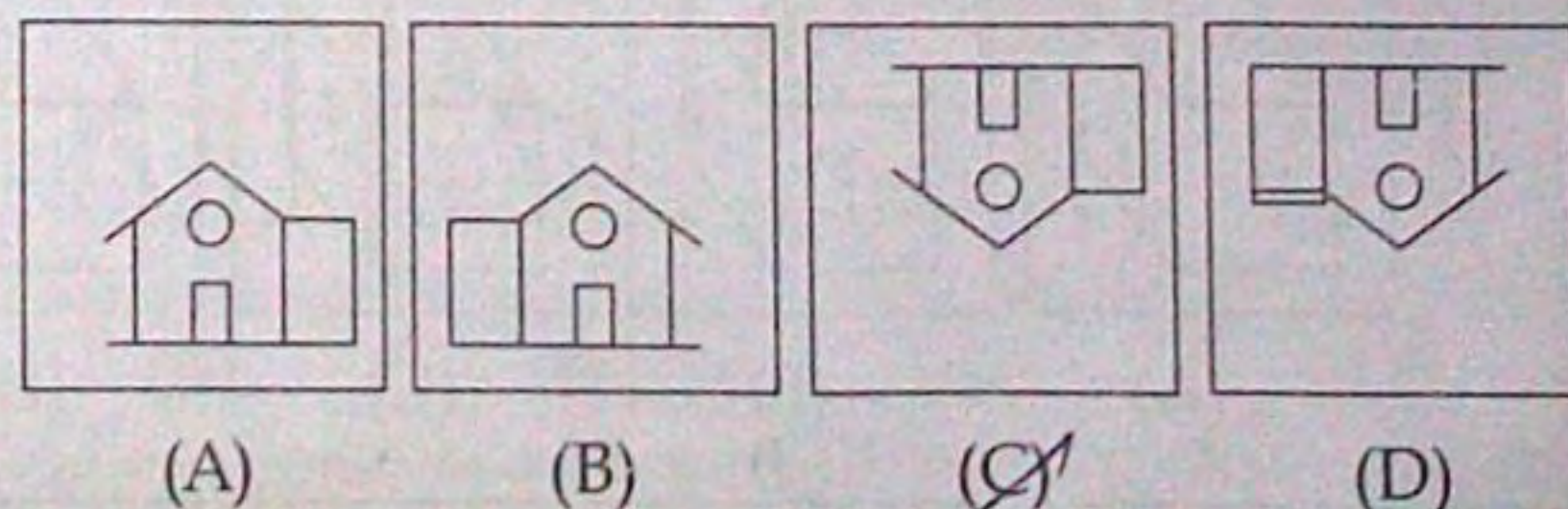
- (A) ~~68, 33, 65, 58~~ (B) 56, 44, 67, 40
 (C) 97, 21, 66, 29 (D) 75, 00, 10, 92

50. Which of the answer figure is exactly the water image of the given figure?

Question figure



Answer figures



FOR VISUALLY HANDICAPPED CANDIDATES ONLY

39. If $A = 1$ $MAP = 30$ then $TAX = ?$
 (A) 34 (B) 45 (C) 46 (D) 44
40. A group of eight friends S, P, L, E, N, D, O, R are seated at equidistance in a circle. S and P are seated in the North - South direction and L and E are in the East - West direction. N is between S and L and is diagonally opposite to O. If R is next to E then where is D seated?
 (A) Between O and T
 (B) Between E and P
 (C) Between P and L
 (D) Between E and S
41. If Red is called as blue, orange is called as green, white is called as yellow. What is the colour of Ruby?
 (A) Blue (B) Orange
 (C) Yellow (D) Red
42. A group of alphabets are given with each being assigned a number. These have to be unscrambled into a meaningful word and correct order of letters may be indicated from the given responses.
 N O E D I T U C A
 1 2 3 4 5 6 7 8 9
 (A) 5, 6, 7, 8, 9, 2, 1, 4, 3
 (B) 3, 7, 8, 9, 2, 4, 6, 5, 1
 (C) 3, 4, 7, 8, 9, 6, 5, 2, 1
 (D) 8, 9, 7, 4, 3, 5, 6, 1, 2
43. In a class of 35, first year students, Karuna is placed 7th from the bottom where as Surinder is placed 9th from the top. Mohan is placed exactly between the two. What is Karuna's position from Mohan?
 (A) 13th (B) 9th (C) 10th (D) 12th
44. If VICTORY = YLFWRUB then SUCCESS = ?
 (A) VYEFIVV (B) VXEEIVV
 (C) VXFFHVV (D) VYEEHVV
45. Fire is related to 'Ashes' in the same way as 'Explosion' is related to :
 (A) Flame (B) Sound
 (C) Debris (D) Explosive
46. If the day after tomorrow is Friday, what day would have been on yesterday?
 (A) Wednesday (B) Sunday
 (C) Monday (D) Tuesday
47. Which number is wrong in the given series?
 975, 864, 743, 642, 531, 420
 (A) 420 (B) 743 (C) 642 (D) 531
48. In a Caravan in addition to 5 hens there are 45 goats, 8 camels and some keepers. If total number of foot is 224 more than total number of heads then find out number of keepers.
 (A) 15 (B) 5 (C) 8 (D) 10
49. How many times a day are the hands of a clock overlap each other?
 (A) 21 (B) 24 (C) 22 (D) 23
50. Which is the 5th number to the left of the number which is exactly in the middle of the following?
 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
 (A) 16 (B) 22 (C) 21 (D) 20

SPACE FOR ROUGH WORK

GENERAL AWARENESS

51. Why were the Congress leaders disappointed with the Cripps Mission (1942) ?
- (A) They wanted full independence rather than Dominion Status.
 (B) The Mission's proposals had not paid attention to the demands of the Muslim League.
 (C) They did not want to share in the responsibility for the defence of India.
 (D) None of the above
52. 'Sun is a constant source of energy'. Which nuclei get fused in Sun's atmosphere ?
- (A) Plutonium (B) Hydrogen
 (C) Helium (D) Uranium
53. **Statement 1:** Quinine is used in the treatment of Malaria.
Statement 2: It is obtained from the root of Cinchona.
- (A) Both Statements 1 and 2 are incorrect
 (B) Statement 1 is correct, but Statement 2 is incorrect
 (C) Statement 1 is incorrect, but Statement 2 is correct
 (D) Both Statements 1 and 2 are correct
54. The Chairman of LIC is :
- (A) Laxman Das (B) Meira kumar
 (C) Vinod Rai (D) K. Mehrotra
55. In ferns the xylem is :
- (A) Polyarch (B) Exarch
 (C) Endarch (D) Mesarch
56. The Nobel Prize for Arthur Kornberg was given for his work on :
- (A) Isolation of nucleic acids
 (B) Mutation theory
 (C) One gene one polypeptide hypothesis
 (D) Cracking triplet code
57. Which of the following is **not** an attribute of element ?
- (A) Archive (B) Color
 (C) Face (D) Size
58. The National Campaign for People's Right to Information (NCPRI) has been lobbying for the passage of the "Whistle blower's Protection Bill", which is aimed to help :
- (A) Woman Activists (B) Street Vendors
 (C) RTI Activists (D) None of the above
59. If the earth stops rotating, the apparent value of g on its surface will :
- (A) increase at some places and remain the same at other places
 (B) increase everywhere
 (C) decrease everywhere
 (D) remain the same everywhere
60. Krishi Karman Award for highest growth in foodgrains (wheat, rice and bengal gram) production was conferred on 10th February 2014 to the government of :
- (A) Rajasthan (B) West Bengal
 (C) Madhya Pradesh (D) Uttar Pradesh
61. Who is the winner of the Indira Gandhi Peace Prize 2012 ?
- (A) Christina Legarde (B) Ela Bhatt
 (C) Ellen Johnson Sirleaf (D) Lydia Davis
62. The layer present in between xylem and phloem in Dicot Stem is :
- (A) starch sheath (B) pith
 (C) stele (D) cambium
63. Which matters come under the Original Jurisdiction of the High Court ?
- (A) Constitutional disputes
 (B) Civil disputes
 (C) Election disputes
 (D) Criminal disputes

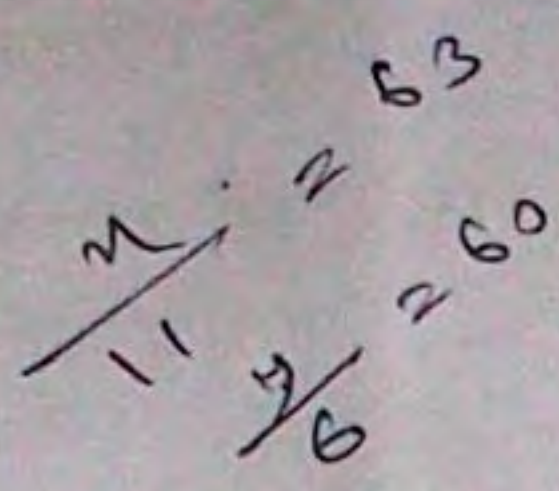
64. In nature, trophic levels are found in :
 (A) Tissue system (B) Root system
 (C) Shoot system (D) Ecosystem
65. 'War and Peace' was written by :
 (A) Sarojini Naidu (B) Leo Tolstoy
 (C) Lenin (D) R. N. Tagore
66. Liquidity preference means :
 (A) Showing preference to hold bonds and securities
 (B) Refraining from consumption
 (C) Desire of the public to hold cash
 (D) Showing preference to hold capital assets
67. How many chromosomes pairs are in a human body ?
 (A) 24 (B) 19 (C) 22 (D) 23
68. Which among the following is **not** correctly paired ?
 (A) Formic acid - Vinegar
 (B) Lactic acid - Milk
 (C) Citric acid - Lemon
 (D) Butyric acid - Rancid butter
69. The information in 'EEPROM' is erased by using _____.
 (A) Digital Signals (B) Electrons
 (C) UV - rays (D) Electrical Signals
70. One of the following is the constitutional power of the Indian Parliament :
 (A) Reviewing the work of educational institutions
 (B) Supervising the work of state legislatures
 (C) Amending Indian Constitution as and when required
 (D) Settling disputes among various departments
71. Who was the grandson of Ashoka ?
 (A) Dasharath (B) Dasraj
 (C) Dashkumar (D) Dashanan
72. β - particles emitted from a radioactive nuclei are :
 (A) fast moving electrons
 (B) hydrogen nuclei
 (C) helium nuclei
 (D) fast moving neutrons
73. "Jai Hind" was the slogan given by :
 (A) Gopalkrishna Gokhale
 (B) Chandra Shekhar Azad -
 (C) Lokmanya Tilak
 (D) Subhas Chandra Bose
74. The production, marketing, storage and consumption of nicotine - based products is banned in :
 (A) Mizoram (B) Delhi
 (C) Rajasthan (D) Assam
75. Where did Mangal Pandey revolt ?
 (A) Nasik (B) Meerut
 (C) Barrackpur (D) Jhansi
76. Taj Mahal was designed by :
 (A) Ustad Shamsheer (B) Ustad Isa
 (C) Ustad Mansur (D) Ustad Rahim
77. Greenland is a :
 (A) continent totally covered with snow
 (B) big ice sheet
 (C) high plateau covered with ice
 (D) low plateau
78. The Words of "Secular" and "Socialist" were added to the Preamble of Indian Constitution by the _____ amendment.
 (A) 24th (B) 42nd (C) 44th (D) 46th
79. The labour which creates value and gets rewarded for its services is called :
 (A) both skilled and unskilled labour
 (B) average labour
 (C) productive labour
 (D) unproductive labour
80. Acetic acid on decarboxylation gives :
 (A) Butane (B) Methane
 (C) Ethane (D) Propane
81. Private investment is otherwise called as :
 (A) autonomous investment
 (B) foreign institutional investment
 (C) foreign direct investment
 (D) induced investment

82. Enzymes are :
 (A) Carbohydrates
 (B) Biological Catalysts
 (C) Fats
 (D) None of the above
83. Krivoy-Rog has rich resources of :
 (A) Manganese (B) Coal
 (C) Iron-ore (D) Copper
84. When central bank buys securities, bank reserves :
 (A) has no impact on the reserves
 (B) expands
 (C) contracts
 (D) remains the same
85. China built the Gwadar Port in :
 (A) Vietnam (B) Pakistan
 (C) Bangladesh (D) Myanmar
86. Linnalus is considered as the 'Father of Taxonomy' because he :
 (A) authored many books on Taxonomy
 (B) was the First Person to classify plants
 (C) coined the term 'Taxonomy'
 (D) proposed binomial nomenclature
87. Who wrote 'As You Like it' ?
 (A) Mulk Raj Anand
 (B) Bernard Shaw
 (C) William Shakespeare
 (D) Leo Tolstoy
88. Which of the following plans had actual growth rate higher than the targetted growth rate ?
 (A) Eighth Five Year Plan
 (B) Fourth Five Year Plan
 (C) Fifth Five Year Plan
 (D) Seventh Five Year Plan
89. Species is a group of individuals which can :
 (A) not inter-breed
 (B) successfully live together in a niche
 (C) survive even under odd conditions
 (D) remain reproductively viable
90. Dr. B. R Ambedkar was conferred "Bharat Ratna" during the regime of :
 (A) JD (B) UPA
 (C) NDA (D) BJP
91. Collective farming is done in the grasslands of the :
 (A) steppes (B) velds
 (C) prairies (D) pampas
92. Tape recorder records sounds in the form of :
 (A) Sound waves (B) Electrical energy
 (C) Magnetic energy (D) Variable resistance
93. A solid **cannot** change its shape easily compared to liquid because of :
 (A) bigger molecular size of solid
 (B) higher density of solid
 (C) stronger intermolecular force in solid
 (D) larger intermolecular separation in solid
94. Probiotic curd (Yogurt) contains health benefitting good :
 (A) bacteria (B) source of energy
 (C) transgenic genes (D) antibiotics
95. The Boston Tea Party was :
 (A) an annual social affair
 (B) a celebration of the harvest of tea leaves
 (C) a protest against the tea drinkers of Boston
 (D) a protest against the tea tax
96. Which of the following movement was **not** led by Mahatma Gandhi ?
 (A) Civil Disobedience Movement
 (B) Champaran Satyagraha
 (C) Bardoli Satyagraha
 (D) Non-cooperation Movement
97. The UPSC members remain in office :
 (A) for a period of six years or till they attain 60 years of age which ever is earlier
 (B) for a period of five years or until they attain 60 years which ever is earlier
 (C) for a period of four years or attain 65 years of age which ever is earlier
 (D) for a period of six years or till they attain 60 years of age which ever is earlier
98. IRDP was introduced during the :
 (A) Third Five Year Plan
 (B) Sixth Five Year Plan
 (C) Fifth Five Year Plan
 (D) Fourth Five Year Plan
99. Enumerate the Vedangas :
 (A) Eleven (B) Six
 (C) Four (D) Five
100. Which one of the following are recorded first by Seismograph ?
 (A) R - waves (B) P - waves
 (C) S - waves (D) L - waves

QUANTITATIVE APTITUDE

101. If $x = k^3 - 3k^2$ and $y = 1 - 3k$, then for what value of k , will be $x = y$?
 (A) 2 (B) 0 (C) 1 (D) -1
102. If I be the incentre of ΔABC and $\angle B = 70^\circ$ and $\angle C = 50^\circ$, then the magnitude of $\angle BIC$ is:
 (A) 105° (B) 130°
 (C) 60° (D) 120°
103. For a triangle circumcentre lies on one of its sides. The triangle is:
 (A) equilateral (B) right angled
 (C) obtused angled (D) isosceles
104. If $a^2 + a + 1 = 0$, then the value of a^9 is:
 (A) 0 (B) 2 (C) 3 (D) 1
105. Among the angles $30^\circ, 36^\circ, 45^\circ, 50^\circ$ one angle cannot be an exterior angle of a regular polygon. The angle is:
 (A) 50° (B) 30° (C) 36° (D) 45°
106. A right pyramid 6 m high has a square base of which the diagonal is $\sqrt{1152}$ m. Volume of the pyramid is:
 (A) 1152 m^3 (B) 144 m^3
 (C) 288 m^3 (D) 576 m^3
107. If $2^{x-1} + 2^{x+1} = 320$, then the value of x is:
 (A) 7 (B) 6 (C) 8 (D) 5
108. A sphere and a hemisphere have the same radius. Then the ratio of their respective total surface area is:
 (A) 3:4 (B) 2:1 (C) 1:2 (D) 4:3
109. If the ratio of volumes of two cones is 2:3 and the ratio of the radii of their bases is 1:2, then the ratio of their heights will be:
 (A) 3:4 (B) 8:3 (C) 3:8 (D) 4:3
110. If $a = 4011$ and $b = 3989$ then value of $ab = ?$
 (A) 15998879 (B) 15999879
 (C) 15899879 (D) 15989979
111. The difference between the compound interest and simple interest on a certain sum for 2 years at 10% per annum is ₹ 300. Find the sum:
 (A) ₹ 30,500 (B) ₹ 31,000
 (C) ₹ 31,500 (D) ₹ 30,000
112. Value of $\left(\sin^2 7\frac{1}{2}^\circ + \sin^2 82\frac{1}{2}^\circ + \tan^2 2^\circ \cdot \tan^2 88^\circ \right)$ is
 (A) 4 (B) 1 (C) 2 (D) 0
113. If $\sin \theta = 0.7$, then $\cos \theta, 0 \leq \theta < 90^\circ$, is:
 (A) $\sqrt{.9}$ (B) 0.3
 (C) $\sqrt{0.49}$ (D) $\sqrt{0.51}$
114. The value of θ , which satisfies the equation $\tan^2 \theta + 3 = 3 \sec \theta, 0^\circ \leq \theta < 90^\circ$ is:
 (A) 60° or 0° (B) 15° or 0°
 (C) 30° or 0° (D) 45° or 0°
115. In ΔPQR , the line drawn from the vertex P intersects QR at a point S. If $QR = 4.5$ cm and $SR = 1.5$ cm then the ratios of the area of triangle PQS and triangle PSR is:
 (A) 2:1 (B) 4:1 (C) 3:1 (D) 3
116. Jasmine allows 4% discount on the marked price of her goods and still earns a profit of 20%. What is the cost price of a shirt if its marked price is ₹ 800?
 (A) ₹ 680 (B) ₹ 650
 (C) ₹ 720 (D) ₹ 700
117. A table with marked price ₹ 1200 was sold to a customer for ₹ 1100. Find the rate of discount allowed on the table.
 (A) 10% (B) 9%
 (C) $8\frac{1}{3}\%$ (D) $9\frac{1}{3}\%$

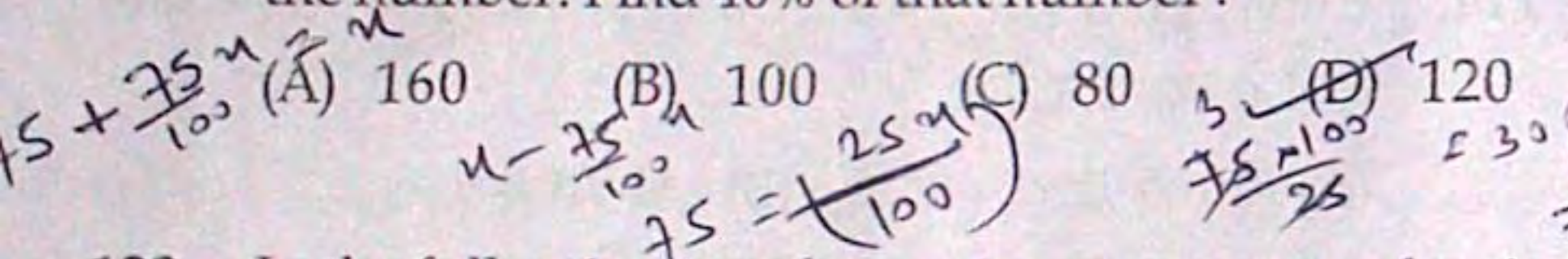
118. A can do a piece of work in 16 days and B in 24 days. They take the help of C and three together finish the work in 6 days. If the total remuneration for the work is ₹ 400. The amount (in rupees) each will receive, in proportion, to do the work is:
- (A) A : 100, B : 150, C : 100
 (B) A : 150, B : 100, C : 150
 (C) A : 100, B : 150, C : 150
 (D) A : 150, B : 150, C : 100



119. The average of 11 numbers is 63. If the average of first six numbers is 60 and the last six numbers is 65 then the 6th number is:
- (A) 64 (B) 57 (C) 60 (D) 62

120. A can do a piece of work in 12 days and B in 15 days. They work together for 5 days and then B left. The days taken by A to finish the remaining work is:
- (A) 12 (B) 3 (C) 5 (D) 10

121. When 75 is added to 75% of a number, the answer is the number. Find 40% of that number:



122. In the following number series a wrong number is given. Find out that number.
 8, 18, 40, 86, 178, 370, 752
- (A) 156 (B) 178 (C) 180 (D) 128

123. If $x^2 + \frac{1}{x^2} = 66$ then the value of

$$\frac{x^2 - 1 + 2x}{x} = ?$$

- (A) ±4 (B) ±8 (C) 10, -6 (D) 6, -10



124. The angle in a semi-circle is:
- (A) a right angle (B) a reflex angle
 (C) an obtuse angle (D) an acute angle

125. 3 years ago, the average age of a family of 5 members was 17 years. A baby having been born, the average age of the family is same today. The present age of the baby is:
- (A) 3 years (B) 1 year
 (C) 1 1/2 years (D) 2 years

126. What number should be subtracted from both the terms of the ratio 11 : 15 so as to make it as 2 : 3?
- (A) 5 (B) 2 (C) 3 (D) 4

127. A train running at the speed of 84 km/hr passes a man walking in opposite direction at the speed of 6 km/hr in 4 seconds. What is the length of the train (in metre)?
- (A) 90 (B) 150 (C) 120 (D) 100

128. For a triangle ABC, D, E, F are the mid-points of its sides. If $\Delta ABC = 24$ sq. units then ΔDEF is:
- (A) 12 sq. units (B) 4 sq. units
 (C) 6 sq. units (D) 8 sq. units



129. Find the value of:
- $$\sqrt{(x^2 + y^2 + z)(x - y - 3z)} \div \sqrt[3]{xy^3z^2}$$
- when $x = +1, y = -3, z = -1$.
- (A) 1/2 (B) 1 (C) 0 (D) -1

130. The three equal circles touches each other externally. If the centres of these circles be A, B, then ΔABC is:
- (A) a scalene triangle
 (B) a right angle triangle
 (C) an equilateral triangle
 (D) an isosceles triangle



131. Selling an item for ₹ 1800 at a discount of 10% shopkeeper had a gain of ₹ 200. Had he sold the item without discount the percentage of profit would have been:
- (A) 30% (B) 10% (C) 20% (D) 25%

132. A man, a woman and a boy together finish a piece of work in 6 days. If a man and a woman can do the work in 10 and 24 days respectively. The days will take by a boy to finish the work is:
- (A) 45 (B) 30 (C) 35 (D) 40

133. A train 50 metres long passes a platform of length 100 meters in 10 seconds. The speed of the train in meters/second is:
 (A) 20 (B) 50 (C) 10 (D) 15

134. The simplest value of $\cot 9^\circ \cot 27^\circ \cot 63^\circ \cot 81^\circ$ is:
 (A) $\sqrt{3}$ (B) 0 (C) 1 (D) -1

135. What will come in place of the question mark (?) in the series?
 3, 8, 27, 112, (?), 3396
 (A) 678 (B) 565 (C) 452 (D) 560

136. The value of $\sin^2 65^\circ + \sin^2 25^\circ + \cos^2 35^\circ + \cos^2 55^\circ$ is:
 (A) $\frac{1}{2}$ (B) 0 (C) 1 (D) 2

137. Find the value of $1 - 2 \sin^2 \theta + \sin^4 \theta$.
 (A) $\sec^4 \theta$ (B) $\sin^4 \theta$
 (C) $\cos^4 \theta$ (D) $\operatorname{cosec}^4 \theta$

138. Each of the two circles of equal radii with centres at A and B pass through the centre of one another. If they cut at C and D then $\angle DBC$ is equal to:
 (A) 140° (B) 60° (C) 100° (D) 120°

139. If $(1 + \sin A)(1 + \sin B)(1 + \sin C) = (1 - \sin A)(1 - \sin B)(1 - \sin C)$, $0 < A, B, C < \frac{\pi}{2}$ then each side is equal to:
 (A) 1
 (B) $\sin A \sin B \sin C$
 (C) $\cos A \cos B \cos C$
 (D) $\tan A \tan B \tan C$

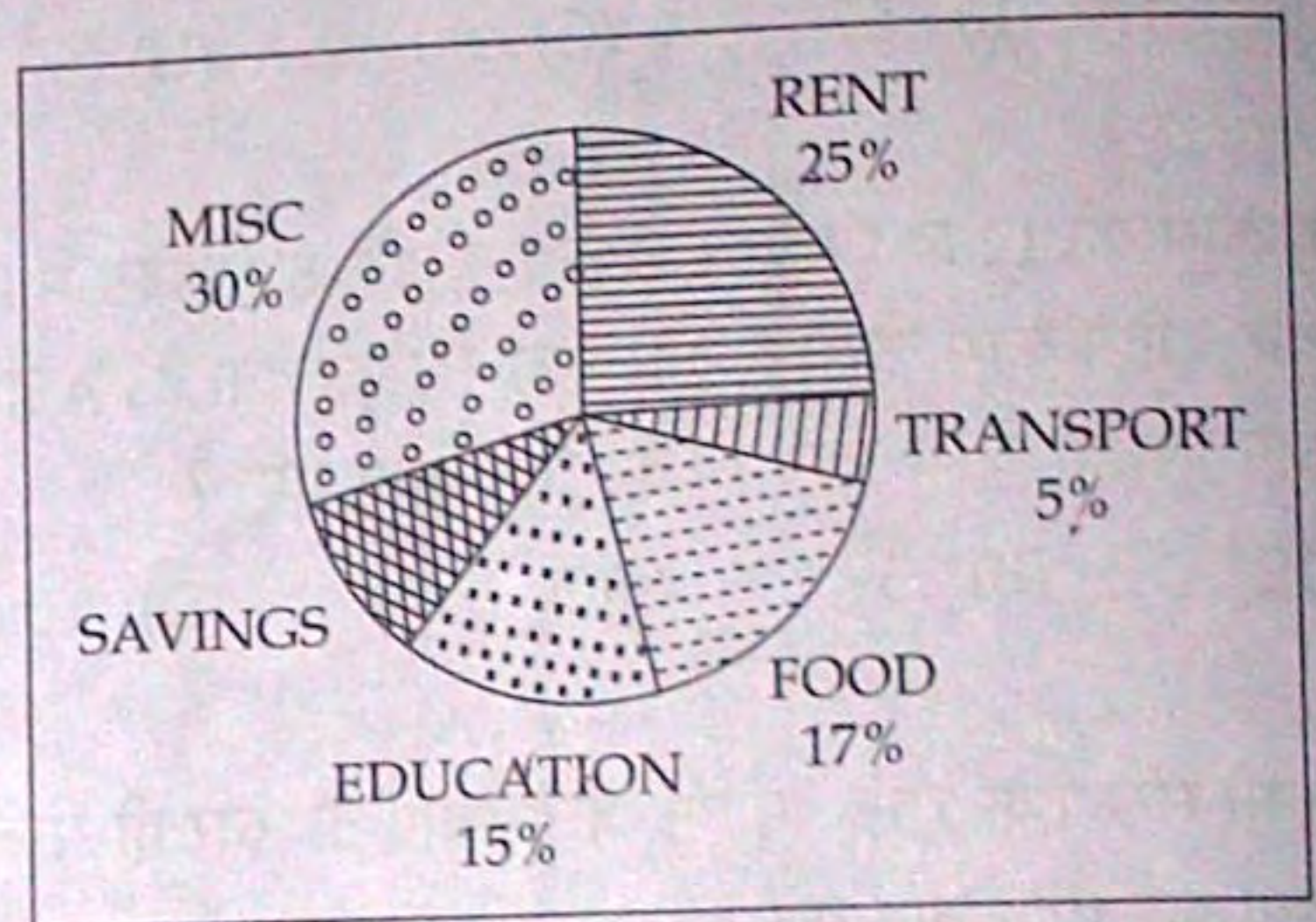
140. If $x + \frac{2}{x} = 1$, then the value of $\frac{x^2 + x + 2}{x^2(1-x)}$ is:
 (A) -2 (B) 1 (C) -1 (D) 2

141. The ratio of the ages of two persons is 4 : 7 and the age of one of them is greater than that of the other by 30 years. The sum of their ages (in years) is:
 (A) 40 (B) 110 (C) 100 (D) 70

142. The marked price of an article is ₹ 500. A shopkeeper gives a discount of 5% and still makes a profit of 25%. The cost price of the article is:
 (A) ₹ 376 (B) ₹ 384
 (C) ₹ 380 (D) ₹ 300

143. $55^3 + 17^3 - 72^3 + 201960$ is equal to:
 (A) 17 (B) -1 (C) 0 (D) 1

The adjoining pie-chart shows the proportional expenditure on various item of Amar's family. If the monthly income of Amar is ₹ 48,000/- then answer Question No. 144 to 147.



144. Had his income ₹ 40,000 /- how much would he spend on food ?
 (A) 6,800 (B) 14,960
 (C) 1,360 (D) 8,160

145. If 10% of miscellaneous expenditure is earmarked for clothing, how much amount is spent on clothing?
 (A) ₹ 15,840 (B) ₹ 14,400
 (C) ₹ 1,440 (D) ₹ 2,880

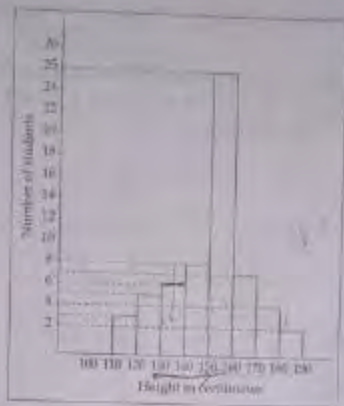
146. How much does he save per month ?
 (A) 2,400 (B) 7,200
 (C) 14,400 (D) 3,840

SPACE FOR ROUGH WORK

147. How much does he spend more on rent than transport and education taken together?

- (A) 12,000 (B) 2,400
(C) 9,600 (D) 4,800

Following histogram depicts the range of heights of students in a class of 60 students. Study the same and answer Question No. 148 to 150.



148. Number of students with their heights between 130 to 150 cms.

- (A) 22 (B) 8 (C) 6 (D) 74

149. Number of students having height more than 150 cms.

- (A) 13 (B) 25 (C) 8 (D) 38

150. Group which contains maximum number of students.

- (A) 160-170 (B) 130-140
(C) 150-160 (D) 140-150

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

144. 16 children are to be divided into two groups A and B of 10 and 6 children respectively. The average marks obtained by the children of group A is 75 and that of all the children is 76. Then the average mark of the children of group B is:

- (A) $78\frac{2}{3}$ (B) $77\frac{1}{3}$
(C) $77\frac{2}{3}$ (D) $79\frac{1}{3}$

145. Find three numbers in the ratio of 1 : 2 : 3, so that sum of their squares is equal to 504.

- (A) 8, 16, 24 (B) 4, 8, 12
(C) 6, 12, 18 (D) 7, 14, 21

146. By selling salt at ₹ 55.80 per quintal a dealer loses 7%. At what price should he have sold it to gain 7%?

- (A) ₹ 65.20 (B) ₹ 65.40
(C) ₹ 64.00 (D) ₹ 64.20

147. The average marks of 36 students in section A is 86% and that of 24 students in section B is 90%. Find the average marks of all the students in section A and section B together.

- (A) 91% (B) 90% (C) 88% (D) 92%

148. If $P + Q + R + S = 5$ and $(P + Q)(R + S) = 6$, then numerical value of $P + Q - R - S$ is:

- (A) 2 (B) -1 (C) 0 (D) 1

149. The outer circumference of a 1 cm thick pipe is 44 cm. How much water will 7 cm of the pipe hold?

(Take $\pi = \frac{22}{7}$)

- (A) 792 cc (B) 1078 cc
(C) 1792 cc (D) 308 cc

150. The compound interest on a certain sum for 2 years at 12% per annum, compounded annually is ₹ 120. The simple interest for that sum at the same rate for the same period will be:

- (A) ₹ 1200 (B) ₹ 1296
(C) ₹ 1196 (D) ₹ 1220

ENGLISH COMPREHENSION

Directions : In question No. 151 to 155, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval [●] corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

151. Part of the research program/
(A)
involved interviewing teenagers/
(B)
in inner-city areas/ No error.
(C) (D)
152. I could not put up at a hotel/
(A)
because the board and lodging charges/
(B)
were too expensive / No error.
(C) (D)
153. Much harassed / he left hostel /
(A) (B)
bag and baggage / No Error.
(C) (D)
154. The young man / was surprised /
(A) (B)
perhaps a shade scandalized/ No error.
(C) (D)
155. Every boy and every girl/ were given/
(A) (B)
a packet of sweets / No error.
(C) (D)

Directions : In question No. 156 to 160, sentences given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval [●] in the Answer Sheet.

156. She heard the _____ of the hinges.
(A) rattling (B) rustling
(C) crashing (D) creaking
157. The sound effects _____ by the recording director.
(A) are provided (B) being provide
(C) been provided (D) provided
158. The _____ of cotton is very heavy.
(A) bald (B) bail
(C) bale (D) band
159. The principal has given his _____ to the match.
(A) except (B) ascent
(C) refuse (D) assent
160. The hunter killed two _____ for dinner.
(A) flour (B) fowl
(C) foul (D) fool

Directions : In question No. 172 to 181, a sentence/ a part of the sentence is underlined. Below are given alternatives to the underlined part at (A), (B), (C) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (D). Mark your answer in the Answer Sheet.

172. The student's interest was raised by an article he had read.

- (A) quickened (B) multiplied
(C) increased (D) No improvement

173. This telephone number is not existing.

- (A) has not existed (B) has not been existing
(C) does not exist (D) No improvement

174. Would it be impertinent to ask why you are leaving ?

- (A) if asking why you are leave
(B) for asking why you are leave
(C) to asking why you are leave
(D) No improvement

175. We have to know that we can achieve things slowly and gradually, not overnight.

- (A) would know that (B) had to know that
(C) must know that (D) No improvement

176. Rajesh's ability to use the local language surprised me.

- (A) knowing of (B) confidence with
(C) familiarity with (D) No improvement

177. I usually did not take sugar in my tea.

- (A) do not take (B) do not takes
(C) have not taken (D) No improvement

178. Unless they modify the system, our future generations will suffer.

- (A) Unless the system is modified
(B) Unless the system will be modified
(C) If the system will not be modified
(D) No improvement

179. We did not see this movie yet.

- (A) never seen (B) have not seen
(C) never have seen (D) No improvement

180. The sight of the lizard is hateful to me.

- (A) repulsion (B) repulsive
(C) repulse (D) No improvement

181. During his long discourse, he did not touch the central idea of the topic.

- (A) touch (B) touch on
(C) touch upon (D) No improvement

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Directions : In question No. 182 to 188, out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate oval [●] in the Answer Sheet.

182. The practise of having many wives :

- (A) bigamy (B) calligraphy
(C) polygamy (D) polyandry

183. Take great pleasure :

- (A) revel (B) satisfied
(C) uphold (D) overhaul

184. A strong dislike :

- (A) reciprocity (B) entreaty
(C) animosity (D) malice

185. A frog lives both on land as well as in water :

- (A) animate (B) amphibian
(C) aquatic (D) ambidexterous

186. The Mahabharata is a long poem based on a no theme :

- (A) summary (B) story
(C) narration (D) epic

187. A person who abstains completely from alcohol drinks :

- (A) teetotaler (B) derelict
(C) subjunctive (D) incriminatory

188. Person who files a suit :

- (A) charger (B) suitor
(C) plaintiff (D) accuser

Directions : In question No. 189 and 190, four words given in each question, out of which only one word correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.

189. (A) misionerry (B) missionary
(C) misionary (D) missionnary

190. (A) propellar (B) propeler
(C) propeller (D) propelre

Directions: In question No. 191 to 200, you have two brief passages with 5 questions following each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval [●] in the Answer Sheet.

Passage - I [Question No. 191 to 195]

The reports published by a Delhi based non-governmental organization working for the elimination of child labour in India suggest that there is no end in sight to the sordid saga of child labour. The studies conducted reveal the nightmarish ordeals that a vast majority of children undergo for getting the basic necessities of life. One of the activists narrated the heart-rending and shocking stories of many hapless children. He accused the society of insensitivity towards this vulnerable section.

It is said that more than five percent of the total Indian population are child workers. Tens of thousands are chiefly engaged in agriculture in rural areas and in a variety of industries in urban areas. Children as young as seven years of age spend days stitching footballs, boxing and cricket gloves for export. Many children spend their entire childhood making carpets with their dexterous hands. Unofficial figures suggest that as many as 40 to 100 million children work in hazardous industries like glassware, fireworks, quarries etc. Many of them have been forced to work in unhygienic conditions often on a casual basis.

191. _____ of children work in hazardous conditions.
 (A) Many (B) Millions
 (C) Five percent (D) Thousands
192. The society is accused of _____ towards the problem of child labour.
 (A) reports (B) vulnerability
 (C) insensitivity (D) bias
193. The word heart-rending means _____.
 (A) risky (B) distressing
 (C) shocking (D) painful
194. The report was published by _____.
 (A) a Delhi based non-governmental organization.
 (B) the Delhi government.
 (C) a governmental organization.
 (D) an activist.
195. Their childhood is spent in _____ conditions.
 (A) vast (B) nightmarish
 (C) hapless (D) urban

Passage - II [Question No. 196 to 200]

The advent of electric power was, in a way, comparable to the successful development and application of nuclear power in the 20th century. In fact, the historical roots of electricity extend far back into antiquity. Many men had a hand both in acquiring basic knowledge about the invisible form of power and in developing the ways adopted for practical purpose. One of the vital keys that helped to unlock the doors leading to the production of electricity was the discovery, in 1831, of the principle of electro-magnetic induction. This discovery was made simultaneously by Michael Faraday in England and Joseph Henry in the United States. From it came the generator sometimes also called the dynamo but several decades of development had to follow before the first practical dynamos or generator came into existence in early 1870.

196. According to the author.
 (A) Micheal Faraday and Joseph Henry revolutionized elecricity in the USA.
 (B) Nuclear power and electricity were discovered in the 20th century.
 (C) The discovery of the principle of electro magnetic induction was not an important discovery.
 (D) The advent of electric power is equivalent to the application of nuclear power in the 20th century.
197. Micheal Faraday and Joseph Henry discovered _____.
 (A) the application of nuclear power
 (B) the generator
 (C) the dynamo
 (D) the principle of electro-magnetic induction
198. Another word for "advent" is _____.
 (A) discovery (B) arrival
 (C) invention (D) constitution
199. The generator was also known as the _____.
 (A) inductor (B) dynamo
 (C) inventor (D) conductor
200. Give a synonym for "antiquity".
 (A) Ancient (B) Antipathy
 (C) Modern (D) Uniqueness