

1486705

EA 2013

Test Form No.
टेस्ट फॉर्म सं.
128 KJ 2

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

Maximum Marks : 200

निर्धारित समय : 2 घंटे (दृष्टिबाधित उम्मीदवारों के लिए : 2 घंटे 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 नीचे लिखे अनुदेशों को ध्यान से पढ़ लें। इस पुस्तिका में प्रश्न अंग्रेज़ी तथा हिन्दी दोनों में दिये गये हैं।

INSTRUCTIONS TO CANDIDATES

- This Booklet contains 200 questions in all comprising the following four parts :
Part A : General Intelligence and 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 (1-36) 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. (VH candidates will have to ensure that these details are filled in by the scribe. However all VH candidates must put their Left-Hand thumb impression at the space provided in the Answer-Sheet. Those VH 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, the 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. 36), 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 VH 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."

उम्मीदवारों के लिए अनुदेश

- 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 : परिमाणत्मक अभिरुचि (50 प्रश्न)
भाग घ : अंग्रेज़ी परिज्ञान (50 प्रश्न)
- अंग्रेज़ी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेज़ी 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 (1-36) 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 दिए गए 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 उम्मीदवार को 'शून्य' अंक दिया जाएगा।
- परीक्षा भवन छोड़ने से पहले उम्मीदवार को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी 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 36) में छपे हुए 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 तथा 144 से 150 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं।
- कोई रफ़ कार्य उत्तर-पत्रिका पर नहीं करना है। रफ़ कार्य के लिए स्थान प्रश्नों के नीचे दिया गया है।
- "परीक्षा हॉलों/कमरों में मोबाइल फ़ोन तथा बेतार संचार साधन पूरी तरह निषिद्ध हैं। उम्मीदवारों को उनके अपने हित में सलाह दी जाती है कि मोबाइल फ़ोन/किसी अन्य बेतार संचार साधन को स्विच ऑफ़ करके भी अपने पास न रखें। इस प्रावधान का अनुपालन न करने को परीक्षा में अनुचित उपायों का प्रयोग माना जाएगा और उनके विरुद्ध कार्रवाई की जाएगी, उनकी अभ्यर्थिता रद्द कर देने सहित।"

PART A : GENERAL INTELLIGENCE AND REASONING

Directions : In questions no. 1 to 6, select the related word/letters/number from the given alternatives.

1. Amnesia : Memory :: Paralysis : ?
 (A) Legs (B) Movement
 (C) Limbs (D) Handicapped
2. AFKP : BGLQ :: CHMR : ?
 (A) DINS (B) DFKP
 (C) DNIS (D) EJOT
3. PREMONITION : MONITIONERP ::
 LINSEEDOIL : ?
 (A) SEEDOILNLI
 (B) SEEDOILLIN
 (C) SEEDOILNIL
 (D) SEEDOILILN
4. 18 : 162 :: 36 : ?
 (A) 984 (B) 1296
 (C) 72 (D) 648
5. 9536 : 6203 :: 5873 : ?
 (A) 2540 (B) 2343
 (C) 2353 (D) 2531
6. Vigilant : Alert :: Viable : ?
 (A) Beautiful (B) Useful
 (C) Simple (D) Feasible

Directions : In questions no. 7 to 11, select the one which is different from the other three alternatives.

7. (A) 222 (B) 10
 (C) 68 (D) 125
8. (A) 41 - 72 (B) 12 - 30
 (C) 51 - 42 (D) 11 - 20
9. (A) FIK (B) DGI
 (C) MPR (D) KND

10. (A) Varanasi (B) Agra
 (C) Haridwar (D) Allahabad

11. (A) Phycology : Algae
 (B) Ornithology : Birds
 (C) Mycology : Fungi
 (D) Biology : Botany

12. Arrange the following words in a meaningful order :

- | | |
|---------------|------------|
| 1. Brother | 2. Husband |
| 3. Father | 4. Son |
| 5. Son-in-law | |

- | | |
|-------------------|-------------------|
| (A) 3, 2, 1, 5, 4 | (B) 4, 1, 2, 5, 3 |
| (C) 4, 1, 5, 2, 3 | (D) 3, 1, 4, 2, 5 |

13. Arrange the following words according to the English dictionary :

- | | |
|-------------|------------|
| 1. Fearsome | 2. Fealty |
| 3. Feasible | 4. Feature |
| 5. Feather | |

- | | |
|-------------------|-------------------|
| (A) 2, 4, 1, 3, 5 | (B) 2, 3, 1, 4, 5 |
| (C) 2, 5, 3, 1, 4 | (D) 2, 1, 3, 5, 4 |

14. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

a_c_baab_cb_

- | | |
|----------|----------|
| (A) abbc | (B) abab |
| (C) aabb | (D) bcca |

15. Number of letters skipped in between adjacent letters in the series increases by one. Which of the following series observes this rule ?

- | | |
|-------------|-------------|
| (A) WBKQXYF | (B) WYBFKQX |
| (C) YBQQFHN | (D) WZCHJMQ |

Directions : In questions no. 16 to 18, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

16. 5, 11, 21, 43, 85, ?
 (A) 185 (B) 170
 (C) 171 (D) 181
17. 12, 27, 85, 345, ?
 (A) 1737 (B) 1380
 (C) 1725 (D) 1731
18. ADGJ, YVSP, KNQT, ?
 (A) SVZB (B) QTWZ
 (C) OLIF (D) LORU
19. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to the man in the photograph?
 (A) Daughter (B) Mother
 (C) Aunt (D) Sister
20. Madhavi and Shalini are good in Dramatics and Computer Science. Anjana and Madhavi are good in Computer Science and Physics. Anjana, Purnima and Nirmala are good in Physics and History. Nirmala and Anjana are good in Physics and Maths. Purnima and Shalini are good in History and Dramatics. Who is good in Physics, Dramatics and Computer Science?
 (A) Nirmala (B) Madhavi
 (C) Shalini (D) Anjana
21. Mrs. Lata was 3 times as old as her son 8 years ago. Their total age is 64 years now. How old (in years) is Mrs. Lata now?
 (A) 48 (B) 12
 (C) 36 (D) 44

22. From the given alternatives, select the word which **cannot** be formed using the letters of the given word.

INQUISITIVENESS

- (A) QUITS (B) QUIETNESS
 (C) INVENTIVE (D) QUININE
23. If the letters of the English alphabet are serially numbered, one of the answers given below has a meaningful word hidden in it. Identify the answer.
 (A) 13, 8, 9, 17, 14, 22
 (B) 1, 12, 7, 5, 2, 18, 1
 (C) 1, 7, 5, 12, 18, 1
 (D) 4, 21, 7, 18, 13, 1
24. If "SEQUENCE" is coded as "HVJFVMXV", then how will "CHILDREN" be coded in the same code?
 (A) MVIWORSX (B) XSRMWIVM
 (C) XSROWIVM (D) DSROWIUN
25. If "GIVE" is coded as "5137" and "BAT" is coded as "924", how will "GATE" be coded in the same code?
 (A) 2547 (B) 5427
 (C) 5724 (D) 5247
26. Following words are written in a code language. Study them carefully and find out the word in the given code.
 CAR - $\phi\alpha\delta$
 SIT - $\eta\psi\kappa$
 WELL - $\sigma\iota\gamma\gamma$
 MAP - $\mu\alpha\beta$
 Given code : $\gamma\alpha\mu\beta$
 (A) LAMP (B) LAME
 (C) LAMA (D) LAMB
27. From the given alternatives, select the word which can be formed using the letters of the given word.
 EXAMINATION
 (A) ANIMATION (B) ANIMAL
 (C) EXAMINER (D) NATIONAL

28. If '+' means '-'; '-' means '×'; '×' means '÷' and '÷' means '+', then

$$25 \times 5 \div 30 + 8 - 2 = ?$$

- (A) 54 (B) 15
(C) 18 (D) 19

29. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

$$5 \times 8 = 28, 3 \times 7 = 12, 8 \times 6 = 35, 13 \times 13 = ?$$

- (A) 169 (B) 130
(C) 140 (D) 144

30. Select the correct combination of mathematical signs to replace * signs and to balance the given equation :

$$13 * 12 * 5 * 4$$

- (A) = - + (B) = + -
(C) + - = (D) - = +

31. A boat can travel with a speed of 30 km/hr in still water. If the speed of the stream is 6 km/hr, find the time taken by the boat to go 108 km downstream.

- (A) 2 hrs (B) 5 hrs
(C) 3 hrs (D) 4 hrs

Directions : In questions no. 32 to 34, select the missing number from the given responses.

32.

4	7	9
8	6	8
3	7	9
35	49	?

- (A) 63 (B) 89
(C) 81 (D) 64

33.

7	6	8
5	4	9
3	2	1
83	56	?

- (A) 146 (B) 128
(C) 136 (D) 148

34.

15	225	30
7	70	20
3	?	8

- (A) 70 (B) 12
(C) 16 (D) 24

35. Rahul travelled from a point and straight to Y at a distance of 90 m. He turned right and walked 40 m, then again turned right and walked 70 m. Finally, he turned right and walked 40 m. How far he is from the starting point ?

- (A) 70 m (B) 10 m
(C) 20 m (D) 30 m

36. I am facing East. Turning to the right I go 20 m, then turning to the left I go 20 m and turning to the right I go 20 m, then again turning to the right I go 40 m and then again I go 40 m to the right. In which direction am I from my original position ?

- (A) North (B) West
(C) South (D) East

Directions : In questions no. 37 and 38, one or two statements are given followed by two conclusions/assumptions, I and II. You have to consider the statement(s) to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions/assumptions can definitely be drawn from the given statement(s). Indicate your answer.

37. **Statements :**

All women are cats.
All cats are rats.

Conclusions :

- I. All women are rats.
II. All rats are women.

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

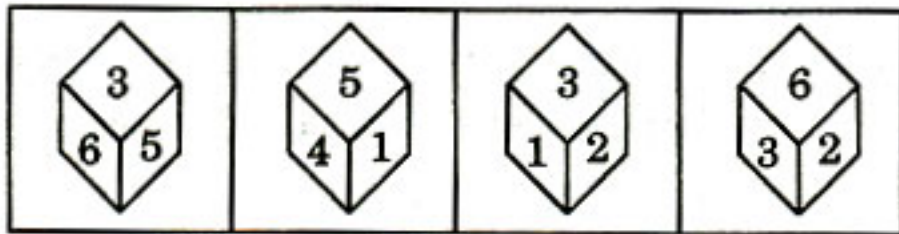
38. **Statement :**

The values of an educated person will differ from that of an uneducated person.

Assumptions :

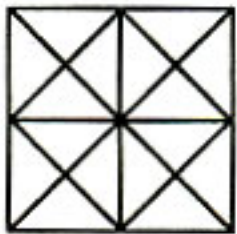
- I. Education influences an individual's values.
 - II. An uneducated person will not have values.
- (A) Neither assumption I nor II is implicit
 (B) Only assumption I is implicit
 (C) Only assumption II is implicit
 (D) Both assumptions I and II are implicit

39. Four positions of a dice are given below. Identify the number at the bottom when the number on the top is 2.



- (A) 6 (B) 3
 (C) 4 (D) 5

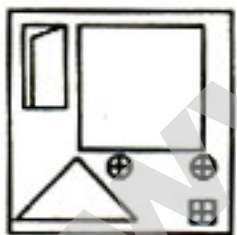
40. How many triangles are there in the given figure?



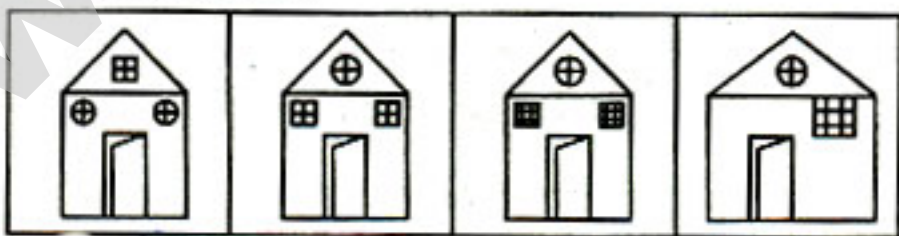
- (A) 40 or more (B) 16
 (C) 18 (D) 28

41. Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure?

Question figure :



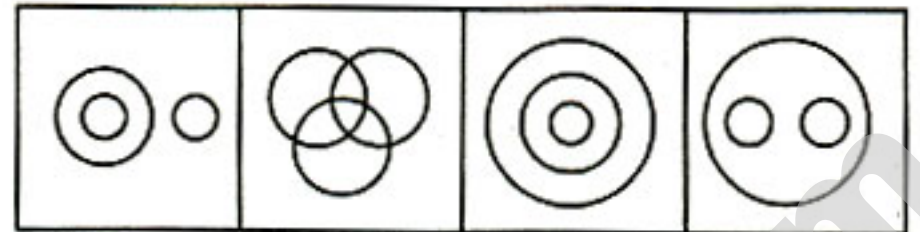
Answer figures :



- (A) (B) (C) (D)

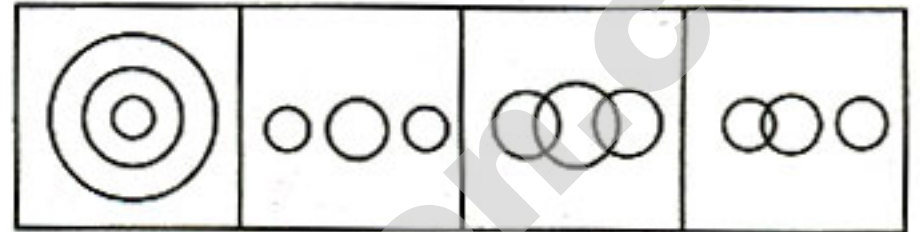
Directions : In questions no. 42 and 43, identify the diagram that best represents the relationship among the classes given below.

42. Teacher, Writer, Musician



- (A) (B) (C) (D)

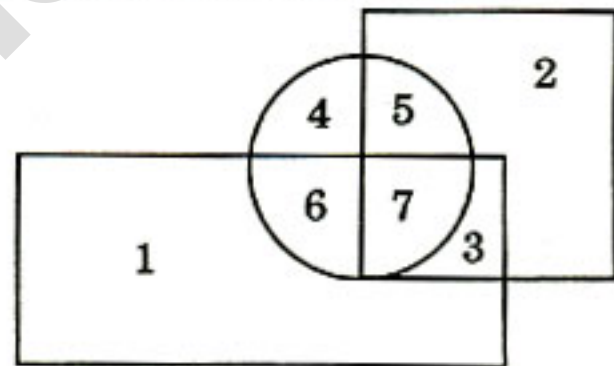
43. School, Women, Children



- (A) (B) (C) (D)

44. In the following diagram, Square represents Doctors, Circle represents Players and Rectangle represents Artists.

Which number represents those Doctors who are Players as well as Artists?



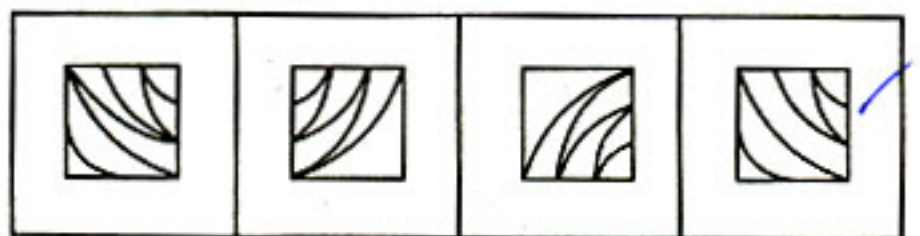
- (A) 7 (B) 2
 (C) 3 (D) 6

Directions : In questions no. 45 and 46, which answer figure will complete the pattern in the question figure?

45. **Question figure :**

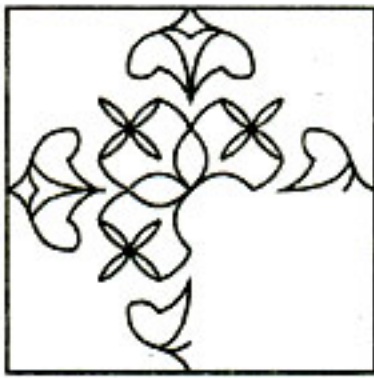


Answer figures :

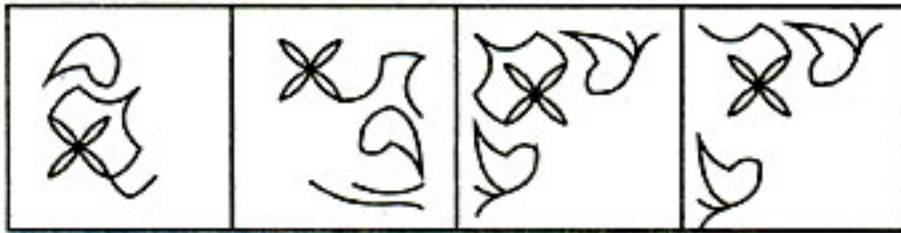


- (A) (B) (C) (D)

46. Question figure :



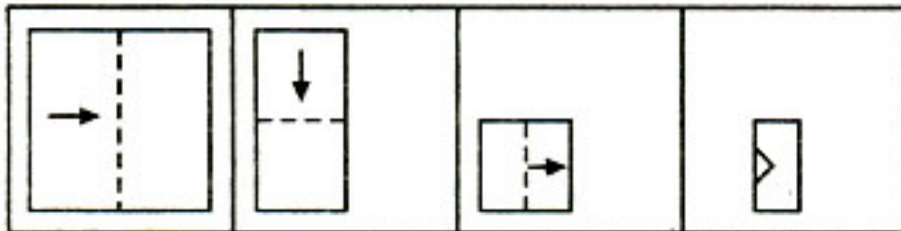
Answer figures :



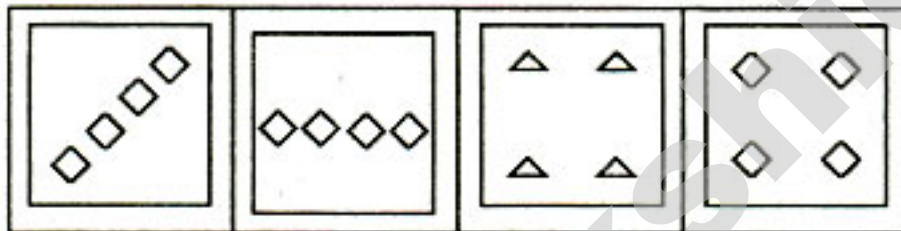
(A) (B) (C) (D)

47. 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 figures :



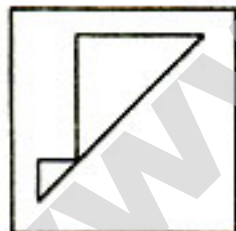
Answer figures :



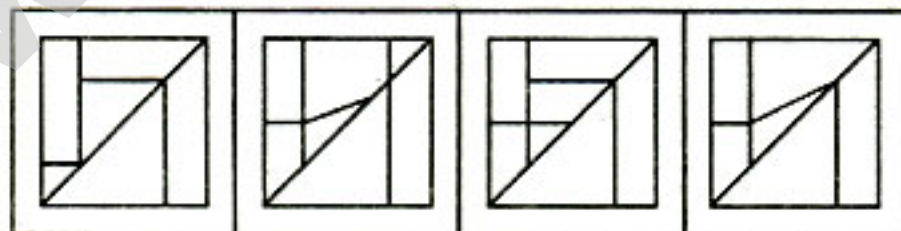
(A) (B) (C) (D)

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

Question figure :



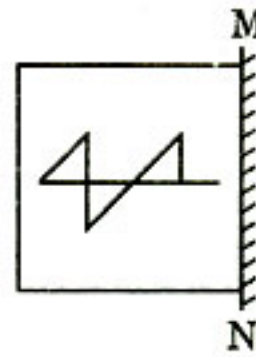
Answer figures :



(A) (B) (C) (D)

49. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the question figure ?

Question figure :



Answer figures :



(A) (B) (C) (D)

50. 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. 'K' can be represented by 00, 24, 32, etc. and L can be represented by 57, 68, 89, etc. Similarly, you have to identify the set for the given word :

MUTE

Matrix I

	0	1	2	3	4
0	K	N	T	U	S
1	S	K	U	T	N
2	T	U	N	S	K
3	U	S	K	N	T
4	N	T	S	K	U

Matrix II

	5	6	7	8	9
5	M	O	L	E	V
6	V	M	O	L	E
7	L	E	M	V	O
8	O	V	E	M	L
9	E	L	V	O	M

(A) 66, 30, 02, 68

(B) 88, 21, 03, 76

(C) 66, 03, 20, 95

(D) 99, 20, 13, 95

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

- 39.** Six friends A, B, C, D, E and F are sitting in a circle. C is to the left of D; F is between A and E; E is between F and D. Between whom is B sitting ?
 (A) F and A (B) C and D
 (C) A and C (D) D and E
- 40.** Which of the following will appear fourth as per order in the English dictionary ?
 (A) powerless (B) powerful
 (C) powerplant (D) powerhouse
- 41.** Select the related number pair from the given alternatives.
 $4 : 20 :: ?$
 (A) 5 : 36 (B) 6 : 42
 (C) 9 : 29 (D) 10 : 120
- 42.** Select the one which is different from the other three responses.
 (A) Hotel (B) Inn
 (C) Club (D) Hostel
- 43.** Identify the wrong term in the given series :
 3, 7, 23, 87, 443, 1367
 (A) 23 (B) 443
 (C) 87 (D) 1367
- 44.** From among the given alternatives, select the one in which the set of numbers is most like the given set of numbers.
 Given set : (48, 24, 12)
 (A) (40, 30, 20) (B) (44, 22, 10)
 (C) (46, 22, 11) (D) (40, 20, 10)
- 45.** If $B = 2$, ACCUMULATE = 100, then IMMEDIATELY = ?
 (A) 116 (B) 122
 (C) 125 (D) 120
- 46.** The average age of 7 employees of a department is 49 years. One member of 50 years seeks voluntary retirement and a new employee of 36 years joins. What is the average age of the employees of the department now ?
 (A) 52 years (B) 45 years
 (C) 47 years (D) 48 years
- 47.** An overhead tank filled with 20 litre capacity has 3 pipe connections A, B and C which are leaking at a rate of 150 ml, 220 ml and 300 ml per hour respectively. What will be the remaining capacity of water at the end of 8 hours ?
 (A) 8 litres 640 ml
 (B) 5 litres 360 ml
 (C) 650 ml
 (D) 14 litres 640 ml
- 48.** A class of girls stand in a single line. Geeta is twenty-third in order from both the ends. How many girls are there in the class ?
 (A) 43 (B) 44
 (C) 45 (D) 46
- 49.** In the following series of numbers, how many 3's are immediately preceded by 9 but not immediately followed by 5 ?
 934593593643933539539375759395
 (A) 6 (B) 4
 (C) 3 (D) 5
- 50.** In a group of five persons A, B, C, D and E, one plays Tennis, one plays Chess and one Hockey. A and D are unmarried women and play no game. There is a couple among them where E is the husband of C. No woman plays either Chess or Hockey. B is the brother of C and he neither plays Tennis nor Chess. Who plays Hockey here ?
 (A) A (B) E
 (C) C (D) B

PART B : GENERAL AWARENESS

51. Franchising is
(A) not having to pay any fee
(B) a form of licensing
(C) operating a business without a licence
(D) operating with less control
52. The maximum strength of Rajya Sabha is
(A) 220 (B) 200
(C) 250 (D) 240
53. If the President of India wants to resign, he has to address the letter of resignation to the
(A) Chief Justice of India
(B) Prime Minister
(C) Vice-President
(D) Speaker
54. The playing time (in seconds) of the full version of Indian National Anthem is
(A) 60 (B) 52
(C) 55 (D) 57
55. The tomb of Jahangir was built at
(A) Gujarat (B) Delhi
(C) Lahore (D) Agra
56. What was the original name of Nur Jahan ?
(A) Zeb-un-Nissa
(B) Fatima Begum
(C) Mehr-un-Nissa
(D) Jahanara
57. The study of factor pricing is alternatively called the theory of
(A) functional distribution
(B) personal distribution
(C) income distribution
(D) wealth distribution
58. SEBI was set up in
(A) 1992 (B) 1980
(C) 1984 (D) 1988
59. In a free enterprise economy, resource allocation is determined by
(A) the pattern of consumers' spending
(B) the wealth of the entrepreneurs
(C) decision of the Government
(D) the traditional employment of factors
60. Rashtriya Krishi Bima Yojana was introduced in
(A) 1992 (B) 1998
(C) 1999 (D) 1996
61. Buyers and Sellers will have perfect knowledge of market conditions under
(A) Duopoly
(B) Perfect competition
(C) Monopolistic competition
(D) Oligopoly
62. Who acts as the channel of communication between the President and the Council of Ministers ?
(A) Chairman, Rajya Sabha
(B) Speaker of Lok Sabha
(C) Vice-President
(D) Prime Minister

63. Largest producer of Bauxite in the world is
(A) U.S.A. (B) Jamaica
(C) Chile (D) Australia
64. The two richest Eco-zones of India are
(A) The Himalayas and Vindhya
(B) The Himalayas and Eastern Ghats
(C) The Himalayas and Western Ghats
(D) The Himalayas and Aravallis
65. At the time of independence, predominantly India practised
(A) Subsistence agriculture
(B) Mixed farming
(C) Plantation agriculture
(D) Shifting agriculture
66. Species which has restricted distribution is called
(A) Eco species
(B) Endemic
(C) Sympatric
(D) Allopatric
67. 2, 4-D is used as
(A) Weedicide
(B) Vitamin
(C) Fertilizer
(D) Insecticide
68. Widal test is used for the diagnosis of
(A) Salmonellosis
(B) Malaria
(C) Cholera
(D) Typhoid
69. Which Charter Act brought to an end, the East India Company's monopoly in India's foreign trade?
(A) Charter Act of 1853
(B) Charter Act of 1793
(C) Charter Act of 1813
(D) Charter Act of 1833
70. The Declaration of the Rights of Man is related with
(A) The Russian Revolution
(B) The French Revolution
(C) The American War of Independence
(D) The Glorious Revolution of England
71. The policy of 'imperial preferences' adopted by Britain in its colonies in 1932 is also known as the
(A) Hong Kong Agreement
(B) London Agreement
(C) Ottawa Agreement
(D) Paris Agreement
72. The planet which has the highest surface temperature is
(A) Jupiter (B) Earth
(C) Pluto (D) Venus
73. Atmospheric temperature increasing at the higher altitudes is called
(A) Radiation
(B) Inversion
(C) Conduction
(D) Convection

74. In a conductor,
 (A) there is no conduction band
 (B) the forbidden energy gap is very wide
 (C) the forbidden energy gap is very narrow
 (D) the valence band and the conduction band overlap each other
75. Which one of the following converts assembly language into machine language?
 (A) Algorithm (B) Interpreter
 (C) Compiler (D) Assembler
76. How many bytes are equal to one kilobyte?
 (A) 1050 (B) 1000
 (C) 976 (D) 1024
77. Which one of the following elements exhibits the greatest tendency to lose electrons?
 (A) Fluorine (B) Lithium
 (C) Oxygen (D) Zinc
78. Poison used for killing rats is
 (A) Calcium phosphide (Ca_3P_2)
 (B) Zinc phosphide (Zn_3P_2)
 (C) Magnesium nitride (Mg_3N_2)
 (D) Magnesium phosphide (Mg_3P_2)
79. Antacid tablets consist of
 (A) Hydroxides of sodium, magnesium and aluminium
 (B) Hydroxides of magnesium and aluminium
 (C) Hydroxides of sodium and aluminium
 (D) Hydroxides of magnesium and sodium
80. The element absorbed both in cation and anion form is
 (A) Sulphur (B) Nitrogen
 (C) Calcium (D) Phosphorus
81. What accumulates in the muscles after continuous strenuous physical exercise as a result of temporary anaerobic respiration, that causes muscular fatigue?
 (A) ATP
 (B) Lactic acid
 (C) Ethyl alcohol
 (D) Carbon dioxide
82. Thalassaemia is an example of
 (A) Deletion mutation
 (B) Point mutation
 (C) Silent mutation
 (D) Frame shift mutation
83. Eutrophication of a water body enhances
 (A) Organic matter production
 (B) Biological oxygen demand
 (C) Both
 (D) Neither
84. The moment of inertia of a body does *not* depend upon its
 (A) axis of rotation
 (B) angular velocity
 (C) form of mass
 (D) distribution of mass
85. To open a door easily, the handle should be fixed
 (A) near the hinges
 (B) away from mid-point opposite to hinges
 (C) in the middle
 (D) None of the above
86. Nucleons are regarded as composites of sub-particles known as
 (A) Mesons (B) Quarks
 (C) Leptons (D) Photons

87. The name of the common currency launched by members of the European Union is
 (A) Sterling (B) Dollar
 (C) Euro (D) Pound
88. National Science Day in India is celebrated on
 (A) 30th April (B) 1st February
 (C) 28th February (D) 28th March
89. *Red Data Book* contains
 (A) Red pandas
 (B) Rare plants and animals under threat
 (C) Rare minerals
 (D) Vanishing rivers
90. Which of the following is India's highest honour in the field of literature ?
 (A) Saraswati Samman
 (B) Vyas Samman
 (C) Kalidas Samman
 (D) Jnanpith Award
91. Which scientist discovered the radioactive element Radium ?
 (A) Marie Curie
 (B) Isaac Newton
 (C) Albert Einstein
 (D) Benjamin Franklin
92. Golden Globe Awards are associated with
 (A) Social work
 (B) Journalism
 (C) Peace initiative
 (D) Films
93. The name of the great maestro of Indian Music "Ustad Bismillah Khan" is related to
 (A) Shehnai (B) Tabla
 (C) Sarod (D) Flute
94. Which of the following is *not* a greenhouse gas ?
 (A) Water vapour (B) O₂
 (C) O₃ (D) CO₂
95. Interveinal necrotic spots on leaves appear due to
 (A) HF injury (B) SO₂ injury
 (C) NO₂ injury (D) O₃ injury
96. Nuclear fallout contains
 (A) Alpha particles
 (B) β-particles
 (C) Both
 (D) Neither
97. Which of the following water bodies is *not* a freshwater resource ?
 (A) Jaisamand (B) Ganga river
 (C) Yamuna river (D) Chilika lake
98. Who among the following is the Home Minister in the Union Cabinet of India ?
 (A) Sushma Swaraj
 (B) Narendra Modi
 (C) Rajnath Singh
 (D) Arun Jaitley
99. Who among the following is/was the 14th Prime Minister of India ?
 (A) Manmohan Singh
 (B) Narendra Modi
 (C) Atal Bihari Vajpayee
 (D) None of the above
100. Which is the world's cultural capital in India ?
 (A) Kolkata (B) Trivandrum
 (C) Madurai (D) Mumbai

PART C : QUANTITATIVE APTITUDE

- 101.** The radius of the base and the height of a right circular cone are doubled. The volume of the cone will be
 (A) 8 times of the previous volume
 (B) three times of the previous volume
 (C) $3\sqrt{2}$ times of the previous volume
 (D) 6 times of the previous volume
- 102.** The ratio of weights of two spheres of different materials is 8 : 17 and the ratio of weights per 1 cc of materials of each is 289 : 64. The ratio of radii of the two spheres is
 (A) 8 : 17 (B) 4 : 17
 (C) 17 : 4 (D) 17 : 8
- 103.** A shopkeeper buys an article for ₹ 360. He wants to make a gain of 25% on it after a discount of 10%. The marked price is
 (A) ₹ 486 (B) ₹ 450
 (C) ₹ 500 (D) ₹ 460
- 104.** A is to pay B, ₹ 600 in 4 years time. A offers to pay up B at present. What discount should B allow A?
 (A) ₹ 96 (B) ₹ 100
 (C) ₹ 120 (D) ₹ 110
- 105.** A shopkeeper sold an item for ₹ 1,510 after giving a discount of $24\frac{1}{2}\%$ and thereby incurred a loss of 10%. Had he sold the item without discount, his net profit would have been
 (A) ₹ 641 (B) ₹ $322\frac{1}{9}$
 (C) ₹ $422\frac{2}{9}$ (D) ₹ $322\frac{2}{9}$
- 106.** ₹ 3,000 is divided between A, B and C, so that A receives $\frac{1}{3}$ as much as B and C together receive and B receives $\frac{2}{3}$ as much as A and C together receive. Then share of C is
 (A) ₹ 600 (B) ₹ 525
 (C) ₹ 1,625 (D) ₹ 1,050
- 107.** $4^{61} + 4^{62} + 4^{63} + 4^{64}$ is divisible by
 (A) 17 (B) 3
 (C) 11 (D) 13
- 108.** The least number which must be added to the greatest number of 4 digits in order that the sum may be exactly divisible by 307 is
 (A) 232 (B) 32
 (C) 43 (D) 75
- 109.** A cistern is provided with two pipes A and B. A can fill it in 20 minutes and B can empty it in 30 minutes. If A and B be kept open alternately for one minute each, how soon will the cistern be filled?
 (A) 121 minutes (B) 110 minutes
 (C) 115 minutes (D) 120 minutes
- 110.** If 40 men or 60 women or 80 children can do a piece of work in 6 months, then 10 men, 10 women and 10 children together do half of the work in
 (A) $5\frac{6}{13}$ months (B) 6 months
 (C) $5\frac{7}{13}$ months (D) $11\frac{1}{13}$ months
- 111.** If a machine consumes $\frac{k}{5}$ kilowatts of power every t hours, how much power in kilowatts, will three such machines consume in 10 hours?
 (A) $\frac{k}{t}$ (B) $\frac{6t}{k}$
 (C) $\frac{6k}{t}$ (D) $\frac{t}{k}$
- 112.** Three cubes of sides 6 cm, 8 cm and 1 cm are melted to form a new cube. The surface area of the new cube is
 (A) 486 cm^2 (B) 496 cm^2
 (C) 586 cm^2 (D) 658 cm^2

113. I walk a certain distance and ride back taking a total time of 37 minutes. I could walk both ways in 55 minutes. How long would it take me to ride both ways ?
 (A) 30 minutes (B) 19 minutes
 (C) 37 minutes (D) 20 minutes
114. The compound interest on a certain sum of money at a certain rate per annum for two years is ₹ 2,050, and the simple interest on the same amount of money at the same rate for 3 years is ₹ 3,000. Then the sum of money is
 (A) ₹ 20,000 (B) ₹ 18,000
 (C) ₹ 21,000 (D) ₹ 25,000
115. If $ab + bc + ca = 0$, then the value of $\frac{1}{a^2 - bc} + \frac{1}{b^2 - ac} + \frac{1}{c^2 - ab}$ is
 (A) 2 (B) -1
 (C) 0 (D) 1
116. If the equation $2x^2 - 7x + 12 = 0$ has two roots α and β , then the value of $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$ is
 (A) $\frac{7}{2}$ (B) $\frac{1}{24}$
 (C) $\frac{7}{24}$ (D) $\frac{97}{24}$
117. Find the value of x for which the expression $2 - 3x - 4x^2$ has the greatest value.
 (A) $-\frac{41}{16}$ (B) $\frac{3}{8}$
 (C) $-\frac{3}{8}$ (D) $\frac{41}{16}$
118. The expression $x^4 - 2x^2 + k$ will be a perfect square if the value of k is
 (A) 1 (B) 0
 (C) $\frac{1}{4}$ (D) $\frac{1}{2}$
119. If $(x - 1)$ and $(x + 3)$ are the factors of $x^2 + k_1x + k_2$ then
 (A) $k_1 = -2, k_2 = -3$ (B) $k_1 = 2, k_2 = -3$
 (C) $k_1 = 2, k_2 = 3$ (D) $k_1 = -2, k_2 = 3$
120. The ratio of the number of boys and girls in a school is 2 : 3. If 25% of the boys and 30% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is
 (A) 72 (B) 36
 (C) 54 (D) 60
121. The mean of 20 items is 55. If two items 45 and 30 are removed, the new mean of the remaining items is
 (A) 65.1 (B) 65.3
 (C) 56.9 (D) 56
122. The average age of a cricket team of 11 players is the same as it was 3 years back because 3 of the players whose current average age is 33 years were replaced by 3 youngsters. The average age of the newcomers is
 (A) 23 years (B) 21 years
 (C) 22 years (D) 20 years
123. If there is a profit of 20% on the cost price, then the percentage of profit on the sale price is
 (A) $16\frac{2}{3}\%$ (B) 12%
 (C) $15\frac{1}{3}\%$ (D) 16%
124. 25% of 120 + 40% of 380 = ? of 637
 (A) $\frac{2}{7}$ (B) $\frac{1}{7}$
 (C) $\frac{4}{7}$ (D) $\frac{3}{7}$
125. A thief steals a car at 1.30 p.m. and drives it off at 40 km/hr. The theft is discovered at 2 p.m. and the owner sets off in another car at 50 km/hr. He will overtake the thief at
 (A) 5 p.m. (B) 4 p.m.
 (C) 4.30 p.m. (D) 6 p.m.

126. In a ΔABC , $AB = BC$, $\angle B = x^\circ$ and $\angle A = (2x - 20)^\circ$. Then $\angle B$ is
 (A) 54° (B) 30°
 (C) 40° (D) 44°
127. ABC is an isosceles triangle and $\overline{AB} = \overline{AC}$ and D is a point on \overline{AC} so that $\overline{BD} = \overline{DC}$. If $\angle ABD = \angle CBD$, then the measure of $\angle BAC$ is
 (A) 54° (B) 18°
 (C) 36° (D) 72°
128. Three circles of radii 3.5 cm, 4.5 cm, 5.5 cm touch each other externally. Then the perimeter of the triangle formed by joining the centres of the circles, in cm, is
 (A) 27
 (B) $\pi[(3.5)^2 + (4.5)^2 + (5.5)^2]$
 (C) 27π
 (D) 13.5
129. If $\sec \theta + \tan \theta = 5$, then the value of $\frac{\tan \theta + 1}{\tan \theta - 1}$ is
 (A) $\frac{11}{7}$ (B) $\frac{13}{7}$
 (C) $\frac{15}{7}$ (D) $\frac{17}{7}$
130. If $\tan^2 \theta = 1 - e^2$, then the value of $\sec \theta + \tan^3 \theta \operatorname{cosec} \theta$ is
 (A) $(2 + e^2)^{3/2}$ (B) $(2 - e^2)^{1/2}$
 (C) $(2 + e^2)^{1/2}$ (D) $(2 - e^2)^{3/2}$
131. Which one of the following is true for $0^\circ < \theta < 90^\circ$?
 (A) $\cos \theta \leq \cos^2 \theta$ (B) $\cos \theta > \cos^2 \theta$
 (C) $\cos \theta < \cos^2 \theta$ (D) $\cos \theta \geq \cos^2 \theta$
132. If $x \sin 60^\circ \tan 30^\circ - \tan^2 45^\circ = \operatorname{cosec} 60^\circ \cot 30^\circ - \sec^2 45^\circ$, then $x =$
 (A) 2 (B) -2
 (C) 6 (D) -4
133. If $\frac{5x}{2x^2 + 5x + 1} = \frac{1}{3}$, then the value of $\left(x + \frac{1}{2x}\right)$ is
 (A) 15 (B) 10
 (C) 20 (D) 5
134. If $x^3 + \frac{3}{x} = 4(a^3 + b^3)$ and $3x + \frac{1}{x^3} = 4(a^3 - b^3)$, then $a^2 - b^2$ is equal to
 (A) 4 (B) 0
 (C) 1 (D) 2
135. If $x = 6 + \frac{1}{x}$, then the value of $x^4 + \frac{1}{x^4}$ is
 (A) 1448 (B) 1442
 (C) 1444 (D) 1446
136. If AD is the median of the triangle ABC and G be the centroid, then the ratio of $AG : AD$ is
 (A) 1 : 3 (B) 2 : 1
 (C) 3 : 2 (D) 2 : 3
137. In a ΔPQR , $\angle RPQ = 90^\circ$, $\overline{PR} = 6$ cm and $\overline{PQ} = 8$ cm, then the radius of the circumcircle of ΔPQR is
 (A) 5 cm (B) 3 cm
 (C) 4 cm (D) 4.5 cm
138. Two supplementary angles are in the ratio 2 : 3. The angles are
 (A) $33^\circ, 57^\circ$ (B) $66^\circ, 114^\circ$
 (C) $72^\circ, 108^\circ$ (D) $36^\circ, 54^\circ$
139. In a triangle ABC , median is AD and centroid is O . $AO = 10$ cm. The length of OD (in cm) is
 (A) 6 (B) 4
 (C) 5 (D) 3.3
140. $ABCD$ is a parallelogram. P, Q are the mid-points of sides BC and CD respectively. If the area of ΔABC is 12 cm^2 , then the area of ΔAPQ is
 (A) 12 cm^2 (B) 8 cm^2
 (C) 9 cm^2 (D) 10 cm^2

141. $x = a \sec \alpha \cos \beta$, $y = b \sec \alpha \sin \beta$, $z = c \tan \alpha$,
then the value of $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2}$ is

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

142. If $\frac{\cos \alpha}{\cos \beta} = a$ and $\frac{\sin \alpha}{\sin \beta} = b$, then the value
of $\sin^2 \beta$ in terms of a and b is

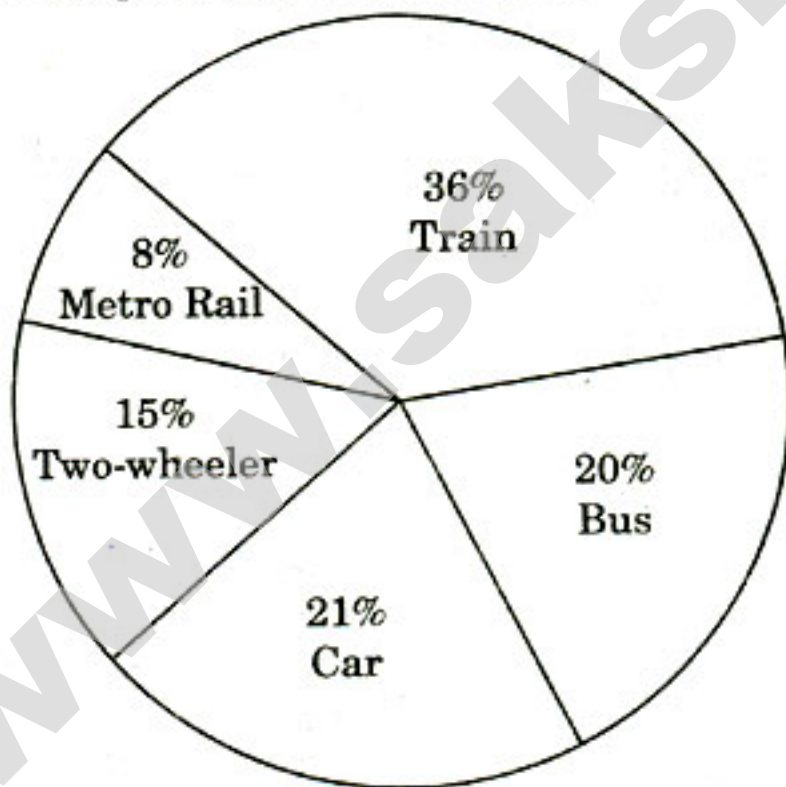
- (A) $\frac{a^2 + 1}{a^2 - b^2}$ (B) $\frac{a^2 - b^2}{a^2 + b^2}$
(C) $\frac{a^2 - 1}{a^2 - b^2}$ (D) $\frac{a^2 - 1}{a^2 + b^2}$

143. The value of

$$\frac{\cos^2 60^\circ + 4 \sec^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ} \text{ is}$$

- (A) $\frac{64}{\sqrt{3}}$ (B) $\frac{65}{12}$
(C) $\frac{67}{12}$ (D) $\frac{67}{10}$

Directions : The pie chart given below represents the modes of transport for 1400 officers of the Staff Selection Commission, Kolkata. Study the chart and answer the questions no. 144 to 147.



144. The ratio of two-wheelers and cars being used as modes of transport is

- (A) 4 : 7 (B) 7 : 5
(C) 5 : 7 (D) 3 : 5

145. Write down the difference :
(officers availing train - officers availing car)

- (A) 210 (B) 462
(C) 562 (D) 452

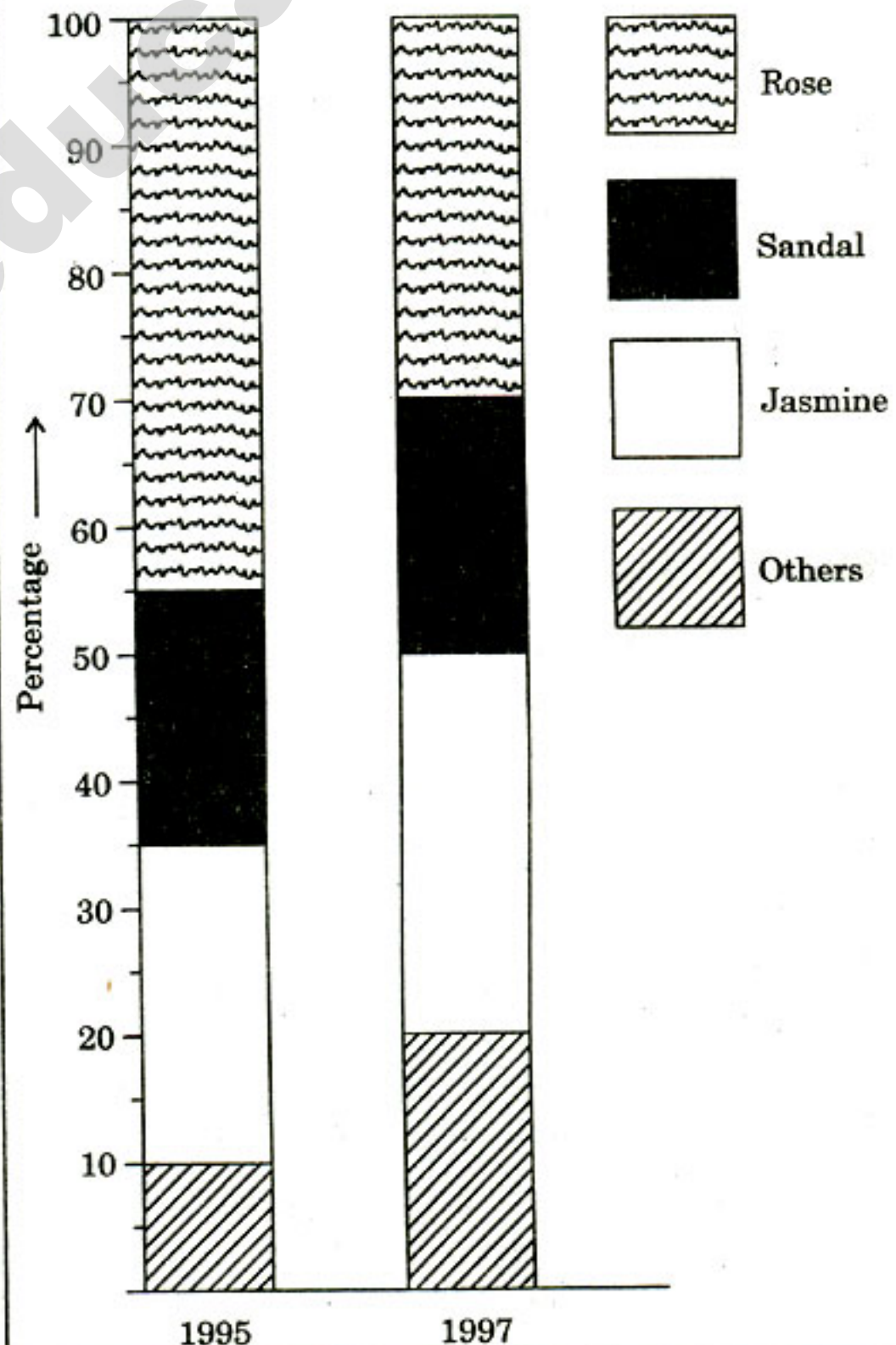
146. The number of officers who go to office by Metro Rail is

- (A) 142 (B) 132
(C) 112 (D) 122

147. The number of officers who go to office by car is

- (A) 394 (B) 304
(C) 214 (D) 294

Directions : The production figures of a perfume manufacturer are given in the form of percentage sub-divided bar diagram. Study the diagram and answer questions no. 148 to 150.



148. What is the ratio of percentage production of rose perfume during 1995 to that during the year 1997 ?
 (A) 4 : 3 (B) 3 : 2
 (C) 2 : 3 (D) 5 : 4
149. What is the percentage of production of sandal perfume during the year 1995 over that during 1997 ?
 (A) 100% (B) 1%
 (C) 0% (D) 50%
150. What is the production of jasmine perfume in the year 1997 ? Given that during the year 1997 total perfumed production was 5000 units.
 (A) 1200 (B) 2500
 (C) 2000 (D) 1500
146. There would be 10% loss if rice is sold at ₹ 5.40 per kg. At what price per kg should it be sold to earn a profit of 20% ?
 (A) ₹ 9 (B) ₹ 6
 (C) ₹ 7.20 (D) ₹ 8.50
147. If $a = 1$, $b = -5$, $c = 0$, then the value of $3a - 2b + \frac{c}{a + 2b}$ is
 (A) 14 (B) 12
 (C) 13 (D) 11
148. Vinaya's marks in 5 subjects — English, Maths, Science, Social Studies and Hindi are 80, 95, 75, 90 and 82 respectively. If the weightage of the subjects taken in order are 2, 3, 1, 1, 2, then her weighed average marks of all subjects is
 (A) 86 (B) 78
 (C) 80 (D) 83

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144. In a box, some one-rupee coins, 50 p coins and 25 p coins make ₹ 225 and the ratio of their numbers is 8 : 5 : 3 respectively. The number of one-rupee coins is
 (A) 172 (B) 80
 (C) 112 (D) 160
145. The smallest number which when divided by 40, 50, 70 and 80 leaves the remainder 28, 38, 58 and 68 respectively, is
 (A) 4328 (B) 3788
 (C) 1768 (D) 2788
149. If the compound interest on a certain sum of money for three years at 10% per annum be ₹ 993, then the principal is
 (A) ₹ 4,500 (B) ₹ 2,800
 (C) ₹ 3,000 (D) ₹ 4,000
150. The area of the surface of a sphere is 5544 sq. cm. The radius of the sphere is (Take $\pi = \frac{22}{7}$)
 (A) 42 cm (B) 18 cm
 (C) 23 cm (D) 21 cm

PART D : ENGLISH COMPREHENSION

Directions : In questions 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. In his book / Churchill describes / that historical first meeting with Roosevelt. / No error.
(A) (B) (C) (D)
152. The ant who was nearby / walked forward and bit the hunter / sharply in the ankle. / No error.
(A) (B) (C) (D)
153. They can promise you / an experience / you won't never forget. / No error.
(A) (B) (C) (D)
154. The dress that the / girl wore was / more attractive than the other girls. / No error.
(A) (B) (C) (D)
155. Fifty years has passed / since man first ventured / into outer space. / No error.
(A) (B) (C) (D)

Directions : In questions no. 156 to 160, sentences are 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. I can _____ him without qualifications.
(A) recommend (B) commend
(C) praise (D) suggest
157. She let her horse _____ in the field.
(A) loosen (B) loose
(C) loosely (D) lose
158. It is hoped that a _____ will be reached in the meeting.
(A) statement (B) comparison
(C) compromise (D) compression
159. We are fortunate to have extremely _____ and visionary leaders.
(A) competitive (B) complex
(C) complaisant (D) competent
160. Some people regard the world as an _____.
(A) imitation (B) allusion
(C) illusion (D) elision

Directions : In questions no. 161 to 163, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

161. Scintillating
(A) moving (B) interesting
(C) burning (D) glittering
162. Transient
(A) fleeting (B) transparent
(C) feeble (D) fanciful
163. Voracious
(A) hungry (B) hasty
(C) thirsty (D) greedy

Directions : In questions no. 164 to 166, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

164. Virtue
(A) fault (B) vice
(C) anger (D) ill-temper
165. Flexible
(A) blunt (B) rigid
(C) gentle (D) rough
166. Obscure
(A) clear (B) gloomy
(C) unpleasant (D) dark

Directions : In questions no. 167 to 171, four alternatives are given for the Idiom/Phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

167. The present manner of delimitation has been done in a gerrymandering way.
(A) in a legal and constitutional manner
(B) in a judicial and fair way
(C) in a manipulative and unfair way
(D) in a dictative manner like the Germans
168. The performance of the lead actors in the play brought the house down.
(A) made the audience applaud enthusiastically
(B) made the audience leave
(C) made the audience cry
(D) made the audience request an encore
169. People like her, who are salt of the earth, are very difficult to find.
(A) dedicated to better the world
(B) good, honest and ideal
(C) extraordinary
(D) one with the common folk
170. The Alpha and Omega
(A) beginning and end
(B) a Shakespearean play
(C) a Greek song
(D) a Swiss watch
171. Jane earned pin money working part-time as a waitress.
(A) saved money
(B) additional money
(C) a small amount of money
(D) money to be spent only for luxuries and treats

Directions : In questions no. 172 to 181, a sentence/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. Loose tea leaves are kept in a tea box.
(A) tin (B) cosy
(C) caddy (D) No improvement

173. Shakespeare is greater than any other poet.
(A) greater than many poets
(B) greater as any other poet
(C) greater than all poets
(D) No improvement
174. I saw the woman whom you said lived next door.
(A) that you said live next door
(B) who you said lived next door
(C) which you said lived next door
(D) No improvement
175. A thousand rupees are all that he wants.
(A) are (B) was
(C) is (D) No improvement
176. I have never been hearing from him since he left for America.
(A) have never heard
(B) have never been hearing
(C) was never heard
(D) No improvement
177. The camera I bought recently is not convenient.
(A) easy to use (B) hard to use
(C) difficult to use (D) No improvement
178. You are a mechanic, aren't you ?
(A) wasn't (B) isn't
(C) are (D) No improvement
179. Sincere workers do not rest till they have reached perfection in their work.
(A) they had achieved
(B) they have achieved
(C) they having reached
(D) No improvement
180. The interesting tale had its beginning more than fifty years ago.
(A) began (B) was started
(C) initiated (D) No improvement
181. One of her friends had just got down from the bus.
(A) alighted from (B) arrived in
(C) landed from (D) No improvement

Directions : In questions 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. A person who works for an employer for a fixed period of time in order to learn the particular skills needed in their job
(A) labourer (B) worker
(C) employee (D) apprentice ✓
183. A word or practice that has gone out of use
(A) obsolete (B) absolute
(C) outdated ✓ (D) old-fashioned
184. Favouritism granted in politics or business to relatives
(A) monotheism (B) nepotism
(C) hedonism (D) redtapism
185. A person who collects coins
(A) ornithologist (B) numismatist ✓
(C) philatelist (D) coin collector
186. A supplement to a will
(A) furlough (B) adjunct
(C) effusion (D) codicil
187. Estimation of a thing's worth
(A) pay (B) goodness
(C) appraisal ✓ (D) beliefs
188. To free completely from blame
(A) let go (B) clear
(C) exonerate ✓ (D) release

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

189. (A) silhouete (B) silhouette
(C) silohoutte (D) silhoutte
190. (A) kleptomaniac (B) cleptomaniac
(C) kleptomaniac (D) cleptomeniac

Directions : In questions 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 (Q. Nos. 191 to 195)

India is chiefly an agricultural land. The cultivation of crops depends on a proper supply of water throughout the year. Since olden times, large parts of our country have suffered from occasional periods of too much rain and those of drought. People have known that if surplus flood water could be stored away for use during the dry season, these problems will be solved. Unfortunately, they had neither the knowledge nor the means to do much in this direction. Whatever little they knew, they tried to put into practice. They dug canals to drain water from perennial rivers. This was heavy and expensive work and practicable over only a small area. Large tanks were excavated and small dams built to hold back floods. But it was not possible to do anything on a countrywide scale.

191. The term 'perennial' means
(A) rivers flowing into canals
(B) flowing once a year
(C) flowing throughout the year ✓
(D) flowing during the monsoon
192. How has our country suffered since olden times ?
(A) It has suffered due to the zamindari system
(B) It has suffered from heavy rains or severe droughts ✓
(C) It has suffered under the British Rule
(D) It has suffered due to the caste system
193. Why were the people unable to solve the problem ?
(A) Absence of will power
(B) They were indifferent to the problem
(C) They lacked knowledge and the means to solve the problem ✓
(D) Inadequate finance

194. 'Excavated' means

- (A) to fill
- (B) to make caves
- (C) to dig
- (D) to flood

195. India's economy is chiefly

- (A) Socialistic
- (B) Industrial
- (C) Mixed
- (D) Agricultural

Passage II (Q. Nos. 196 to 200)

Stop reading this passage for a few seconds and look around the room you're in. Without any perceived effort at all on your part, your brain will register everything within the scope of your vision. But where does all that information — known as sensory memory — go? Well, pretty quickly, it vanishes.

So what if you want to hold on to these fleeting memories for longer? The answer is obvious: you need to pay conscious attention to the sensory input we are receiving. By focusing on it, you can take the information to the next memory level, and turn it into working — or short-term — memory. This enables you, say, to remember the words you've just read so that what follows makes overall sense.

True to its name, short-term memory lasts for only a few seconds to a few minutes, but it plays a vital role in our daily lives, allowing us to write down doctor's appointments, make everyday decisions or have a conversation (think about it: you have to recall what someone said to you five seconds ago in order to respond). Of course, there is some information you need to keep for days, months

or even years. What you need here is long-term memory. With this, the potential is there to remember something forever.

196. The information stored in your sensory memory generally

- (A) stays with you forever
- (B) stays with you for a short while
- (C) disappears completely
- (D) lingers in your brain

197. To convert a sensory memory into a short-term memory we must

- (A) ignore a sensory input completely
- (B) focus on the information
- (C) concentrate on what we are looking at
- (D) be consciously attentive to sensory input

198. Short-term memory allows us to

- (A) remember events for many years
- (B) remember an event during childhood
- (C) remember simple things like appointments
- (D) remember plenty of dates and numbers

199. Long-term memory helps us

- (A) forget unimportant things
- (B) remember a thing for a long time
- (C) forget things for a long time
- (D) erase short-term memory

200. The information that your brain stores within a fleeting moment is called

- (A) memory level
- (B) sensory memory
- (C) short-term memory
- (D) long-term memory