

1486710

EA 2013

Test Form No.
टेस्ट फॉर्म सं.
514 TN 2

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

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

Maximum Marks : 200

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 अंग्रेजी 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 : 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 (1-36) 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 जाएँ, 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. 112 : 222 :: 442 : ?
 (A) 552 (B) 882
 (C) 884 (D) 886
2. 08 : 09 :: ? : 25
 (A) 27 (B) 36
 (C) 64 (D) 16
3. Produce : Waste :: Contrast : ?
 (A) Oppose (B) Contradict
 (C) Similar (D) Correct
4. Knife : Chef :: ?
 (A) Oxygen : Man
 (B) Plough : Farmer
 (C) Carpenter : Saw
 (D) Newspaper : Editor
5. FILM : ADGH :: MILK : ?
 (A) HDGF (B) HEGF
 (C) ADGF (D) HDGE
6. NIATRUC : CURTAIN :: ENILUCSAM : ?
 (A) MUNISLCUE (B) MSINUCLUE
 (C) MNIUSLUCE (D) MASCULINE

Directions : In questions no. 7 to 12, select the one which is different from the other three alternatives.

7. (A) IOU (B) OUG
 (C) AEI (D) EIO
8. (A) INSXC (B) MRVBG
 (C) AFKPU (D) EJOTY

9. (A) Papaya (B) Mango
 (C) Pomegranate (D) Guava
10. (A) Hazrat Muhammad
 (B) Sri Ramakrishna Dev
 (C) Gautam Buddha
 (D) Jesus Christ
11. (A) 76 (B) 64
 (C) 38 (D) 95
12. (A) (114, 57) (B) (38, 144)
 (C) (95, 152) (D) (76, 133)
13. Arrange the following words as per order in the dictionary :
 1. Insensible 2. Insensate
 3. Insentiment 4. Insensitive
 5. Instrument
 (A) 5, 1, 2, 4, 3 (B) 4, 2, 1, 5, 3
 (C) 2, 1, 4, 3, 5 (D) 2, 3, 4, 1, 5
14. In the following question, letters and numbers are in accordance with a pattern. Discover the pattern and pick the correct answer from the answer choices to fill in the gaps.
 A B _ 4 E F _ 8 I _ _ 12 M N _ P
 (A) 6, 7, L, 6, K (B) 5, 7, I, 9, K
 (C) 2, 5, P, 8, K (D) 3, 7, J, 11, O
15. Which one of the given responses would be a meaningful order of the following ?
 1. Cloth 2. Thread
 3. Dress 4. Cotton
 5. Weaving
 (A) 3, 1, 5, 4, 2 (B) 2, 5, 4, 3, 1
 (C) 3, 5, 2, 4, 1 (D) 4, 2, 5, 1, 3

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. 2, 5, 12, 27, ?

- (A) 58 (B) 59
(C) 56 (D) 57

17. 3, 5, 35, 10, 12, 35, 17, ? , ?

- (A) 19, 35 (B) 19, 24
(C) 22, 35 (D) 35, 19

18. hqva, clqv, ? , yhmr

- (A) gpuz (B) govz
(C) gpvy (D) gkuz

19. The present ages of Gaurav and Saurav are in the ratio of 6 : 7 respectively. After 6 years their ages will be in the ratio of 15 : 17, respectively. What is Gaurav's present age?

- (A) 24 years (B) 23 years
(C) 28 years (D) 25 years

20. Anjali is the daughter of the only sister of Smita's mother. How is Smita related to Anjali?

- (A) Mother (B) Aunt
(C) Daughter (D) Cousin

21. In a test, 3 marks are given to each correct answer and 2 marks are cut for each wrong answer. In that test of 50 questions, a student got 60 marks. How many questions did he solve correctly?

- (A) 32 (B) 39
(C) 26 (D) 18

22. If 'four tall boys' is coded as 519, 'Tarun is a good father' is coded as 20749 and 'Tarun has four toys' is coded as 2358, then 'Tarun has four pencils' can be coded as

- (A) 2356 (B) 2537
(C) 2591 (D) 2354

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

STANDARDIZATION

- (A) DARE (B) RATION
(C) STATION (D) DIAS

24. From the given alternative words, select the word which can be formed using the letters of the given word.

REMINISCENCE

- (A) MANNERS (B) SERVICE
(C) INSANE (D) SINCERE

25. How many meaningful words of 3 or more letters, can be formed with the letters of the word 'EAMIL'?

- (A) 4 (B) 6 or more
(C) 1 (D) 2

26. If in a certain code 'TIGER' is coded as 'UHHDS', then the code for 'LION' would be

- (A) KJPO (B) MHPM
(C) MJPM (D) MJNO

27. If PAINT is coded as 74128 and EXCEL is coded as 93596, then how would you encode ACCEPT?

- (A) 554978 (B) 735961
(C) 455978 (D) 547978

28. Some equations have been solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

$$96 + 31 = 32, 76 + 73 = 14, 88 + 96 = ?$$

- (A) 13 (B) 28
(C) 21 (D) 03

29. X stands for addition, V stands for subtraction, U stands for equal to, \wedge stands for division, Σ stands for multiplication, ∂ stands for $>$, σ stands for $<$. Which expression is true?

- (A) $3 \Sigma 2 \Sigma 4 U 2 X 7 V 3$
(B) $2 \Sigma 3 \Sigma 4 \sigma 51 \wedge 3$
(C) $3 X 8 V 2 U 12 \wedge 3$
(D) $13 V 12 X 9 V 2 \partial 5 \Sigma 1$

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

$$4 * 7 * 10 * 5 * 3 * 7 * 47$$

- (A) $+ \times - \div \times =$ (B) $\div \times + - + =$
(C) $\times - \div + \times =$ (D) $- + \div \times - =$

31. $410 + x + y - 305 = 171$. If $x = 2y$, then find the value of y .

- (A) 66 (B) 84
(C) 22 (D) 23

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

32.

4	5	6
2	3	7
1	8	3
21	98	?

- (A) 73 (B) 16
(C) 94 (D) 76

33.

36	25	64
16	9	36
4	1	?

- (A) 49 (B) 64
(C) 25 (D) 16

34.

108	17	9
208	31	8
245	?	7

- (A) 35 (B) 40
(C) 25 (D) 32

35. Two statements are given followed by two conclusions, I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions can definitely be drawn from the given statements. Indicate your answer.

Statements :

All vehicles need fuel to run.

Bullock carts can run without fuel.

Conclusions :

I. Bullock cart is not a vehicle.

II. Some vehicles run without fuel.

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

36. Bhairav walked 30 ft towards North, then took a left turn and walked 15 ft. He again took a left turn and walked 30 ft. How far and in which direction is Bhairav from the starting point?

- (A) 15 ft to the West
(B) 45 ft to the South
(C) 30 ft to the East
(D) 15 ft to the North

37. Kunal and Vikram start from a fixed point. Kunal moves 4 km to the South, then turns left and moves 3 km. Vikram moves 3 km towards West, then turns right and moves 4 km further. How far apart are they now?

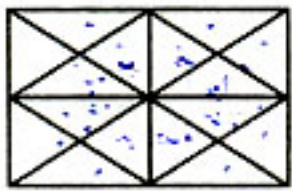
- (A) 7 km (B) 13 km
(C) 10 km (D) 14 km

38. I. The Oberio Mall has more stores than Raghuleela Mall.
 II. The Growell Mall has fewer stores than Raghuleela Mall.
 III. The Oberio Mall has more stores than Growell Mall.

If Statements I and II are true, then Statement III is

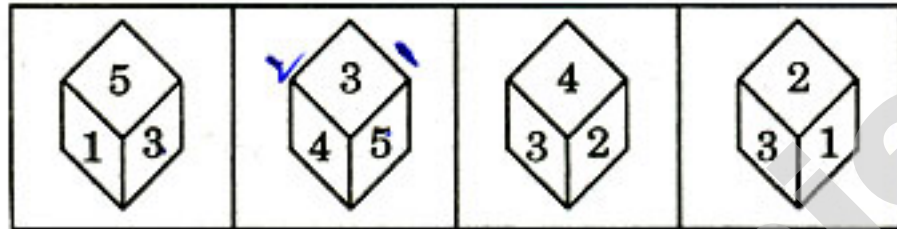
- (A) Uncertain (B) Vague
 (C) True (D) False

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



- (A) 36 (B) 40 or more
 (C) 16 (D) 32

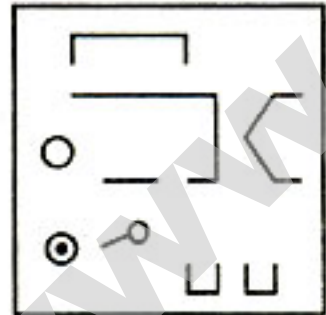
40. Which number will occur on the face opposite to 4?



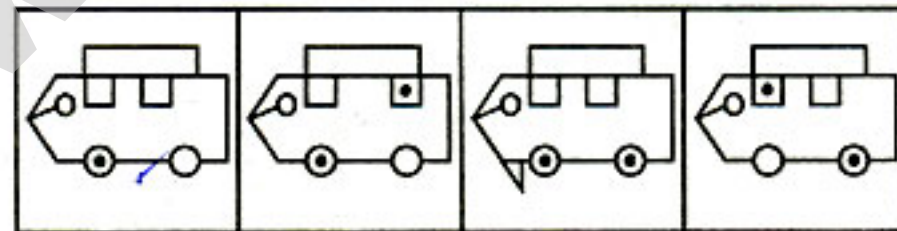
- (A) 1 (B) 5
 (C) 3 (D) 6

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

Question figure :

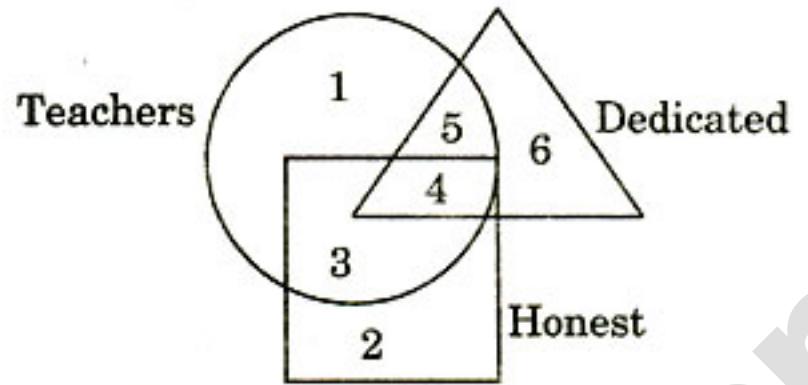


Answer figures :



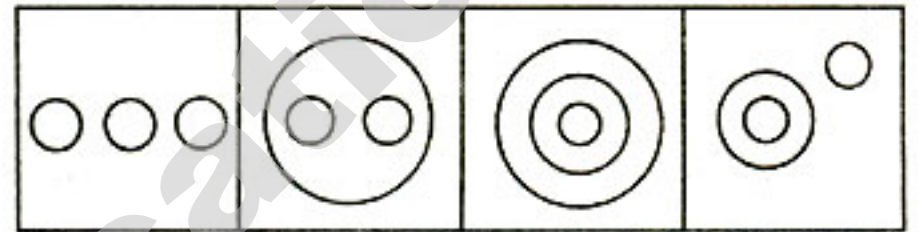
- (A) (B) (C) (D)

42. Among the teachers, find out the dedicated teachers who are honest.



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

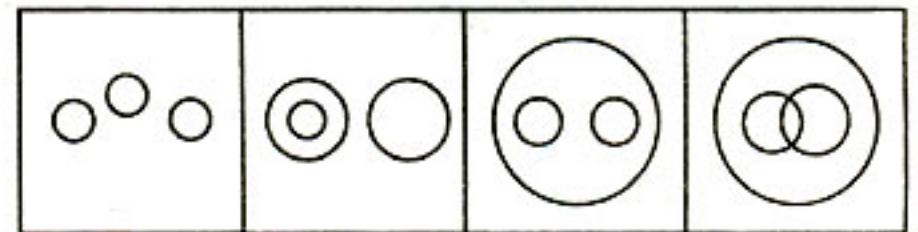
43. Which one of the following diagrams best depicts the relationship among Mountain, Earth, Moon?



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

44. Indicate which figure will best represent the relationship among the three :

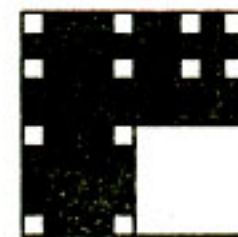
Omnivorous, Bear, Crow



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

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

45. Question figure :

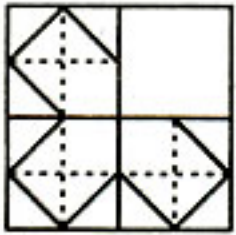


Answer figures :

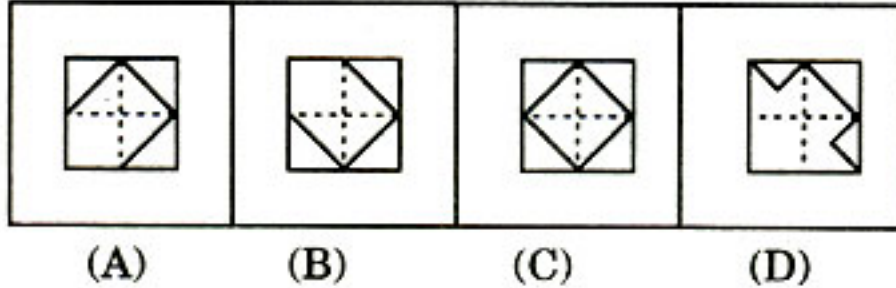


- (A) (B) (C) (D)

46. Question figure :



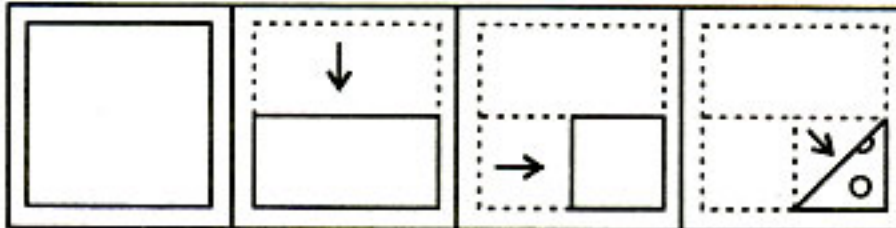
Answer figures :



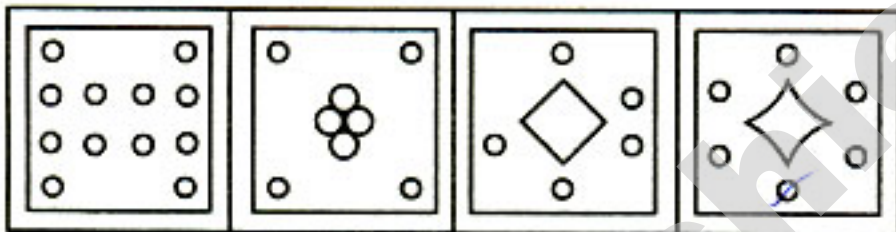
(A) (B) (C) (D)

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 :



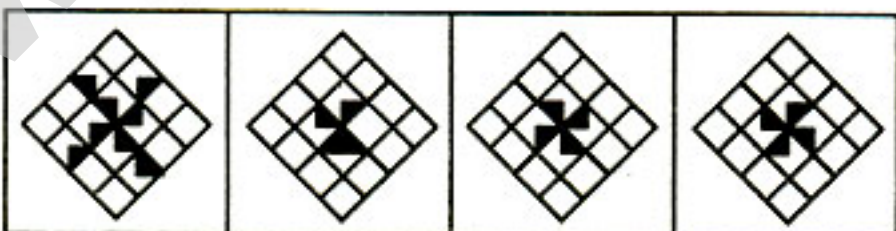
(A) (B) (C) (D)

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. 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. 'N' can be represented by 04, 11, etc. and 'P' can be represented by 59, 66, etc. Similarly, you have to identify the set for the given word :

AERO

Matrix I

	0	1	2	3	4
0	R	S	A	C	N
1	C	N	R	S	A
2	S	A	C	N	R
3	N	R	S	A	C
4	A	C	N	R	S

Matrix II

	5	6	7	8	9
5	O	B	K	E	P
6	E	P	O	B	K
7	B	K	E	P	O
8	P	O	B	K	E
9	K	E	P	O	B

(A) 21, 65, 24, 67

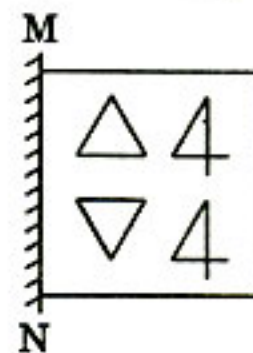
(B) 40, 56, 43, 55

(C) 02, 65, 31, 68

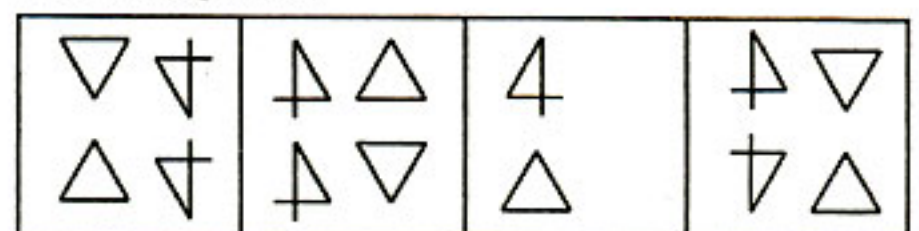
(D) 33, 77, 23, 98

50. 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)

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39. In a queue, Sonam is standing on 13th position from left and Poonam is standing on 11th position from right. If they exchange the positions, Sonam stands on 17th position from left. How many girls are there in the queue ?
 (A) 30 (B) 31
 (C) 27 (D) 28
40. In a colour scheme, if brown stands for black, green stands for pink, pink stands for blue, what would be the colour of coal ?
 (A) Blue (B) Black
 (C) Brown (D) Pink
41. If A = 1, C = 3 and so on, what does the following group of numbers stand for ?
 8, 25, 16, 15, 19, 20, 1, 19, 9, 19
 (A) hyperventilate
 (B) hypochondria
 (C) hypoglycemia
 (D) hypostasis
42. FINGER : HHPFGQ, then REQUIRE : ?
 (A) TDSTKQG (B) TDTSKQG
 (C) TDSWKQG (D) TDSTQKG
43. Five individuals L, M, N, O, P are standing in a queue. M is between L and N and O is between N and P. If the distance of N from M is equal to the distance of O from N, what is the relation between the distances of L to M and M to P ?
 (A) LM is larger than MP
 (B) There is no relation between LM and MP
 (C) Both are equal
 (D) LM is smaller than MP
44. 'Stone' is related to 'Sculptor' in the same way as 'Canvas' is related to
 (A) Colours (B) Painting
 (C) Painter (D) Cloth
45. Which number is *wrong* in the given series ?
 5, 9, 17, 30, 45, 65, 89
 (A) 30 (B) 65
 (C) 17 (D) 45
46. If by looking in a mirror it appears that it is 9 : 30 in the clock, what is the real time ?
 (A) 6 : 30 (B) 2 : 30
 (C) 4 : 30 (D) 6 : 10
47. How many 5's are followed by an odd number and preceded by a prime number ?
 25355725435354
 (A) 5 (B) 6
 (C) 3 (D) 4
48. Ramesh bought some pens on Monday. Next day he bought two more than double the count on Monday. On Wednesday he bought 8 pens. Now he has total 40 pens. How many pens did he buy on Monday ?
 (A) 10 (B) 8
 (C) 12 (D) 15
49. If day before yesterday was Sunday and tomorrow is 19th, what will be the date next Tuesday ?
 (A) 11th (B) 27th
 (C) 26th (D) 25th
50. A group of alphabets is given with each being assigned a number. These have to be unscrambled into a meaningful word and the correct order of letters may be indicated from the given responses.
 P K T C A I S L E
 1 2 3 4 5 6 7 8 9
 (A) 729136458 (B) 791326548
 (C) 971624358 (D) 314672589

PART B : GENERAL AWARENESS

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

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

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

87. Which is the world's cultural capital in India ?
(A) Mumbai (B) Kolkata
(C) Trivandrum (D) Madurai
88. Which of the following is *not* a greenhouse gas ?
(A) CO_2 (B) Water vapour
(C) O_2 (D) O_3
89. Interveinal necrotic spots on leaves appear due to
(A) O_3 injury (B) HF injury
(C) SO_2 injury (D) NO_2 injury
90. Nuclear fallout contains
(A) Alpha particles
(B) β -particles
(C) Both
(D) Neither
91. Which of the following water bodies is *not* a freshwater resource ?
(A) Chilika lake (B) Jaisamand
(C) Ganga river (D) Yamuna river
92. Who among the following is the Home Minister in the Union Cabinet of India ?
(A) Arun Jaitley
(B) Sushma Swaraj
(C) Narendra Modi
(D) Rajnath Singh
93. Who among the following is/was the 14th Prime Minister of India ?
(A) Narendra Modi
(B) Atal Bihari Vajpayee
(C) Manmohan Singh
(D) None of the above
94. Which of the following is India's highest honour in the field of literature ?
(A) Jnanpith Award
(B) Saraswati Samman
(C) Vyas Samman
(D) Kalidas Samman
95. Which scientist discovered the radioactive element Radium ?
(A) Benjamin Franklin
(B) Marie Curie
(C) Isaac Newton
(D) Albert Einstein
96. Golden Globe Awards are associated with
(A) Films
(B) Social work
(C) Journalism
(D) Peace initiative
97. The name of the great maestro of Indian Music "Ustad Bismillah Khan" is related to
(A) Flute (B) Shehnai
(C) Tabla (D) Sarod
98. The name of the common currency launched by members of the European Union is
(A) Pound (B) Sterling
(C) Dollar (D) Euro
99. National Science Day in India is celebrated on
(A) 28th March (B) 30th April
(C) 1st February (D) 28th February
100. *Red Data Book* contains
(A) Vanishing rivers
(B) Red pandas
(C) Rare plants and animals under threat
(D) Rare minerals

PART C : QUANTITATIVE APTITUDE

- 101.** 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) 75 (B) 232
 (C) 32 (D) 43
- 102.** 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) 120 minutes (B) 121 minutes
 (C) 110 minutes (D) 115 minutes
- 103.** 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) $11\frac{1}{13}$ months (B) $5\frac{6}{13}$ months
 (C) 6 months (D) $5\frac{7}{13}$ months
- 104.** 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) $\frac{t}{k}$ (B) $\frac{k}{t}$
 (C) $\frac{6t}{k}$ (D) $\frac{6k}{t}$
- 105.** 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) 658 cm^2 (B) 486 cm^2
 (C) 496 cm^2 (D) 586 cm^2
- 106.** $4^{61} + 4^{62} + 4^{63} + 4^{64}$ is divisible by
 (A) 13 (B) 17
 (C) 3 (D) 11
- 107.** 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) 17 : 8 (B) 8 : 17
 (C) 4 : 17 (D) 17 : 4
- 108.** 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) ₹ 460 (B) ₹ 486
 (C) ₹ 450 (D) ₹ 500
- 109.** 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) ₹ 110 (B) ₹ 96
 (C) ₹ 100 (D) ₹ 120
- 110.** 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) ₹ $322\frac{2}{9}$ (B) ₹ 641
 (C) ₹ $322\frac{1}{9}$ (D) ₹ $422\frac{2}{9}$
- 111.** ₹ 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) ₹ 1,050 (B) ₹ 600
 (C) ₹ 525 (D) ₹ 1,625
- 112.** The radius of the base and the height of a right circular cone are doubled. The volume of the cone will be
 (A) 6 times of the previous volume
 (B) 8 times of the previous volume
 (C) three times of the previous volume
 (D) $3\sqrt{2}$ times of the previous volume

113. 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) 6 p.m. (B) 5 p.m.
 (C) 4 p.m. (D) 4.30 p.m.
114. 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) 60 (B) 72
 (C) 36 (D) 54
115. The mean of 20 items is 55. If two items 45 and 30 are removed, the new mean of the remaining items is
 (A) 56 (B) 65.1
 (C) 65.3 (D) 56.9
116. 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) 20 years (B) 23 years
 (C) 21 years (D) 22 years
117. If there is a profit of 20% on the cost price, then the percentage of profit on the sale price is
 (A) 16% (B) $16\frac{2}{3}\%$
 (C) 12% (D) $15\frac{1}{3}\%$
118. 25% of 120 + 40% of 380 = ? of 637
 (A) $\frac{3}{7}$ (B) $\frac{2}{7}$
 (C) $\frac{1}{7}$ (D) $\frac{4}{7}$
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. 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) 20 minutes (B) 30 minutes
 (C) 19 minutes (D) 37 minutes
121. 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) ₹ 25,000 (B) ₹ 20,000
 (C) ₹ 18,000 (D) ₹ 21,000
122. 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) 1 (B) 2
 (C) -1 (D) 0
123. 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) $\frac{97}{24}$ (B) $\frac{7}{2}$
 (C) $\frac{1}{24}$ (D) $\frac{7}{24}$
124. Find the value of x for which the expression $2 - 3x - 4x^2$ has the greatest value.
 (A) $\frac{41}{16}$ (B) $-\frac{41}{16}$
 (C) $\frac{3}{8}$ (D) $-\frac{3}{8}$
125. The expression $x^4 - 2x^2 + k$ will be a perfect square if the value of k is
 (A) $\frac{1}{2}$ (B) 1
 (C) 0 (D) $\frac{1}{4}$

126. Two supplementary angles are in the ratio 2 : 3. The angles are
 (A) $36^\circ, 54^\circ$ (B) $33^\circ, 57^\circ$
 (C) $66^\circ, 114^\circ$ (D) $72^\circ, 108^\circ$
127. In a triangle ABC, median is AD and centroid is O. $AO = 10$ cm. The length of OD (in cm) is
 (A) 3.3 (B) 6
 (C) 4 (D) 5
128. 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) 10 cm^2 (B) 12 cm^2
 (C) 8 cm^2 (D) 9 cm^2
129. If $\frac{5x}{2x^2 + 5x + 1} = \frac{1}{3}$, then the value of $\left(x + \frac{1}{2x}\right)$ is
 (A) 5 (B) 15
 (C) 10 (D) 20
130. 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) 2 (B) 4
 (C) 0 (D) 1
131. If $x = 6 + \frac{1}{x}$, then the value of $x^4 + \frac{1}{x^4}$ is
 (A) 1446 (B) 1448
 (C) 1442 (D) 1444
132. If AD is the median of the triangle ABC and G be the centroid, then the ratio of AG : AD is
 (A) 2 : 3 (B) 1 : 3
 (C) 2 : 1 (D) 3 : 2
133. 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) 4.5 cm (B) 5 cm
 (C) 3 cm (D) 4 cm
134. If $x \sin 60^\circ \tan 30^\circ - \tan^2 45^\circ = \text{cosec } 60^\circ \cot 30^\circ - \sec^2 45^\circ$, then $x =$
 (A) -4 (B) 2
 (C) -2 (D) 6
135. In a ΔABC , $AB = BC$, $\angle B = x^\circ$ and $\angle A = (2x - 20)^\circ$. Then $\angle B$ is
 (A) 44° (B) 54°
 (C) 30° (D) 40°
136. 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) 72° (B) 54°
 (C) 18° (D) 36°
137. 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) 13.5
 (B) 27
 (C) $\pi[(3.5)^2 + (4.5)^2 + (5.5)^2]$
 (D) 27π
138. If $\sec \theta + \tan \theta = 5$, then the value of $\frac{\tan \theta + 1}{\tan \theta - 1}$ is
 (A) $\frac{17}{7}$ (B) $\frac{11}{7}$
 (C) $\frac{13}{7}$ (D) $\frac{15}{7}$
139. If $\tan^2 \theta = 1 - e^2$, then the value of $\sec \theta + \tan^3 \theta \text{ cosec } \theta$ is
 (A) $(2 - e^2)^{3/2}$ (B) $(2 + e^2)^{3/2}$
 (C) $(2 - e^2)^{1/2}$ (D) $(2 + e^2)^{1/2}$
140. Which one of the following is true for $0^\circ < \theta < 90^\circ$?
 (A) $\cos \theta \geq \cos^2 \theta$ (B) $\cos \theta \leq \cos^2 \theta$
 (C) $\cos \theta > \cos^2 \theta$ (D) $\cos \theta < \cos^2 \theta$

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

142. $x = a \sec \alpha \cos \beta$, $y = b \sec \alpha \sin \beta$, $z = c \tan \alpha$,

then the value of $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2}$ is

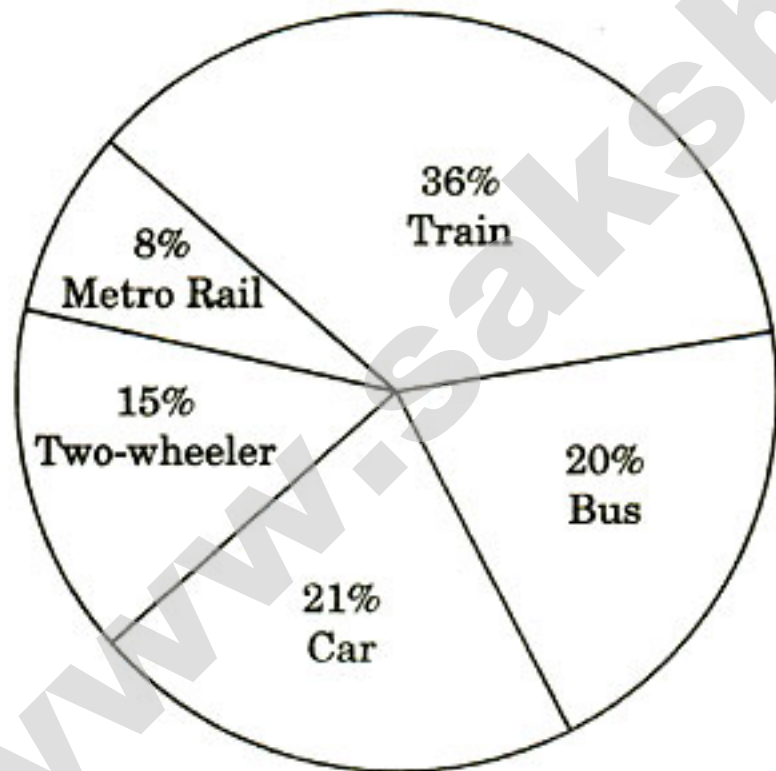
- (A) -1 (B) 2
 (C) 0 (D) 1

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

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 number of officers who go to office by car is

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

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

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

146. Write down the difference :

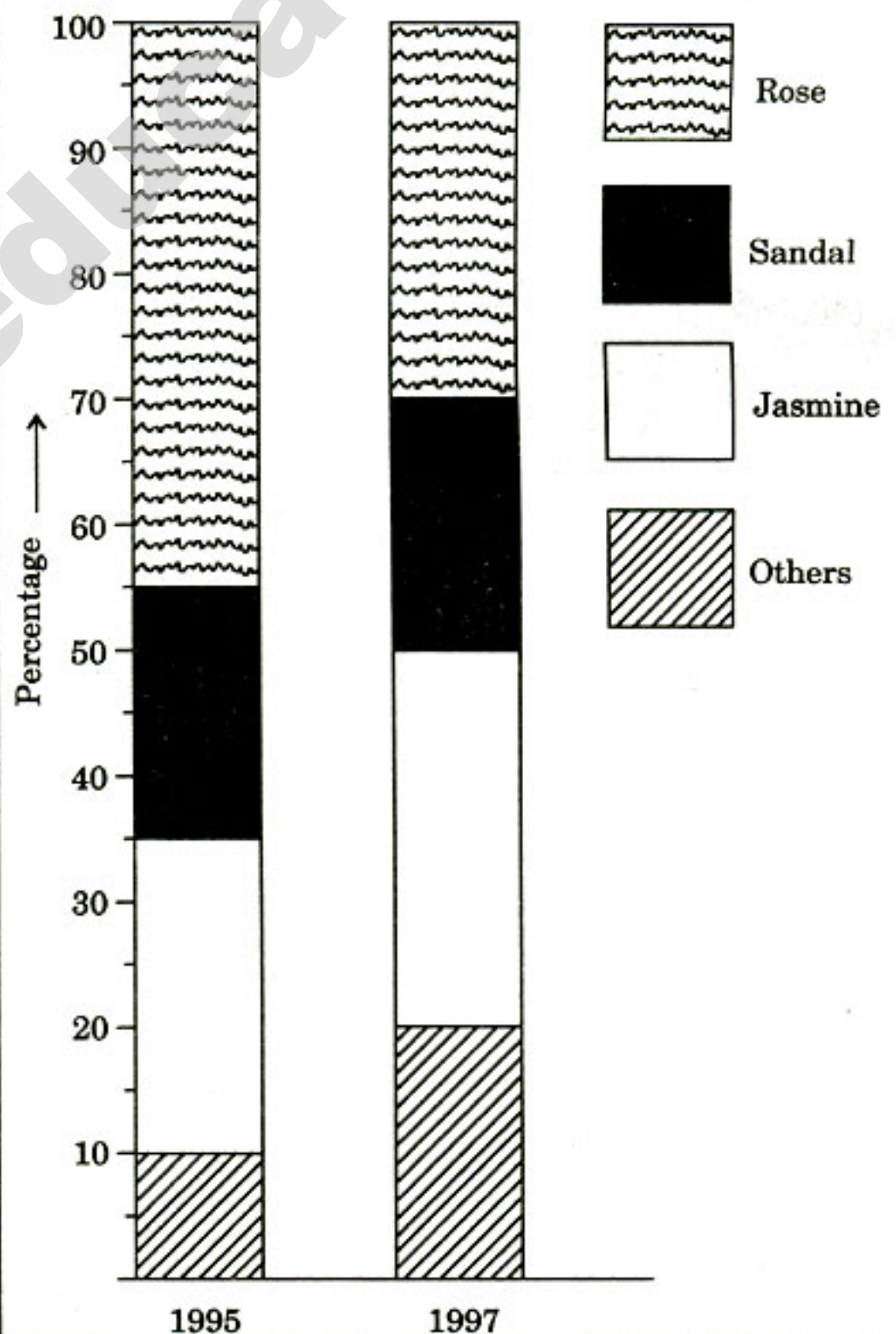
(officers availing train - officers availing car)

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

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

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

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 percentage of production of sandal perfume during the year 1995 over that during 1997 ?

- (A) 50% (B) 100%
(C) 1% (D) 0%

149. What is the production of jasmine perfume in the year 1997 ? Given that during the year 1997 total perfumed production was 5000 units.

- (A) 1500 (B) 1200
(C) 2500 (D) 2000

150. What is the ratio of percentage production of rose perfume during 1995 to that during the year 1997 ?

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

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144. 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) 83 (B) 86
(C) 78 (D) 80

145. If $a = 1$, $b = -5$, $c = 0$, then the value of $3a - 2b + \frac{c}{a + 2b}$ is

- (A) 11 (B) 14
(C) 12 (D) 13

146. The area of the surface of a sphere is 5544 sq. cm. The radius of the sphere is (Take $\pi = \frac{22}{7}$)

- (A) 21 cm (B) 42 cm
(C) 18 cm (D) 23 cm

147. 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) 160 (B) 172
(C) 80 (D) 112

148. The smallest number which when divided by 40, 50, 70 and 80 leaves the remainder 28, 38, 58 and 68 respectively, is

- (A) 2788 (B) 4328
(C) 3788 (D) 1768

149. 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) ₹ 8.50 (B) ₹ 9
(C) ₹ 6 (D) ₹ 7.20

150. If the compound interest on a certain sum of money for three years at 10% per annum be ₹ 993, then the principal is

- (A) ₹ 4,000 (B) ₹ 4,500
(C) ₹ 2,800 (D) ₹ 3,000

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. The dress that the / girl wore was / more attractive than the other girls. / No error.
(A) (B) (C) (D)
152. Fifty years has passed / since man first ventured / into outer space. / No error.
(A) (B) (C) (D)
153. In his book / Churchill describes / that historical first meeting with Roosevelt. / No error.
(A) (B) (C) (D)
154. The ant who was nearby / walked forward and bit the hunter / sharply in the ankle. / No error.
(A) (B) (C) (D)
155. They can promise you / an experience / you won't never forget. / 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. We are fortunate to have extremely _____ and visionary leaders.
(A) competent (B) competitive
(C) complex (D) complaisant
157. Some people regard the world as an _____.
(A) elision (B) imitation
(C) allusion (D) illusion
158. I can _____ him without qualifications.
(A) suggest (B) recommend
(C) commend (D) praise
159. She let her horse _____ in the field.
(A) lose (B) loosen
(C) loose (D) loosely
160. It is hoped that a _____ will be reached in the meeting.
(A) compression (B) statement
(C) comparison (D) compromise

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

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

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

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. One of her friends had just got down from the bus.
(A) arrived in (B) landed from
(C) alighted from (D) No improvement

173. Loose tea leaves are kept in a tea box.
(A) cosy (B) caddy
(C) tin (D) No improvement
174. Shakespeare is greater than any other poet.
(A) greater as any other poet
(B) greater than all poets
(C) greater than many poets
(D) No improvement
175. I saw the woman whom you said lived next door.
(A) who you said lived next door
(B) which you said lived next door
(C) that you said live next door
(D) No improvement
176. A thousand rupees are all that he wants.
(A) was (B) is
(C) are (D) No improvement
177. I have never been hearing from him since he left for America.
(A) have never been hearing
(B) was never heard
(C) have never heard
(D) No improvement
178. The camera I bought recently is not convenient.
(A) hard to use (B) difficult to use
(C) easy to use (D) No improvement
179. You are a mechanic, aren't you ?
(A) isn't (B) are
(C) wasn't (D) No improvement
180. Sincere workers do not rest till they have reached perfection in their work.
(A) they have achieved
(B) they having reached
(C) they had achieved
(D) No improvement
181. The interesting tale had its beginning more than fifty years ago.
(A) was started (B) initiated
(C) began (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. Favouritism granted in politics or business to relatives
 (A) redtapism (B) monotheism
 (C) nepotism (D) hedonism
183. A person who collects coins
 (A) coin collector (B) ornithologist
 (C) numismatist (D) philatelist
184. A supplement to a will
 (A) codicil (B) furlough
 (C) adjunct (D) effusion
185. Estimation of a thing's worth
 (A) beliefs (B) pay
 (C) goodness (D) appraisal
186. To free completely from blame
 (A) release (B) let go
 (C) clear (D) exonerate
187. 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) apprentice (B) labourer
 (C) worker (D) employee
188. A word or practice that has gone out of use
 (A) old-fashioned (B) obsolete
 (C) absolute (D) outdated

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

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

194. 'Excavated' means

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

195. India's economy is chiefly

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

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. Long-term memory helps us

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

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

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

198. The information stored in your sensory memory generally

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

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

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

200. Short-term memory allows us to

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