

Staff Selection Commission

Southern Region

Combined Graduate Level (Tier - I) Examination, 2014

Held on 26-10-2014

Evening Session

Test Form No.
टेस्ट फॉर्म सं.
765 PK 3

Time Allowed : 2 Hours (For VH/Cerebral Palsy Candidates : 2 hrs. 40 min.)
निर्धारित समय : 2 घंटे (दृष्टिबाधित/सेरिब्रल पालसी 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 & 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/Cerebral Palsy candidates will have to ensure that these details are filled in by the scribe. However all VH/Cerebral Palsy candidates must put their Left-Hand thumb impression at the space provided in the Answer-Sheet. Those VH/Cerebral Palsy candidates who can sign should also put their signatures in addition to thumb impression.)
- Answers must be shown by completely blackening the corresponding ovals on Side-II of the Answer-Sheet against the relevant question number by Black/Blue Ball-point Pen only. Answers which are not shown by Black/Blue Ball-point Pen will not be awarded any mark.
- A machine will read the coded information in the OMR Answer-Sheet. In case the information is incomplete or different from the information given in the application form, such candidate will be awarded 'ZERO' mark.
- The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- Failure to comply with any of the above instructions will render a candidate liable to such action/penalty as may be deemed fit.
- The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 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/Cerebral Palsy 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 परिचय (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 कटाय जाएंगे।
- 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/सेरिब्रल पालसी वाले उम्मीदवार सुनिश्चित करें कि यह विवरण लिपिक द्वारा भरा जाए। परन्तु सभी दृष्टिबाधित/सेरिब्रल पालसी वाले उम्मीदवार उत्तर-पत्रिका में निर्धारित स्थान पर अपने बाएँ हाथ के अंगूठे का निशान अवश्य लगाएँ। जो दृष्टिबाधित/सेरिब्रल पालसी वाले 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/सेरिब्रल पालसी 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 & REASONING

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

1. BFJN : KOSW :: DHLP : ?
 (A) CGKO (B) FJNR
 (C) MQUY (D) NRVZ
2. BPTF : ESWI :: ? : GDRY
 (A) DVAO (B) DAOV
 (C) VAOD (D) ADVO
3. 60 : 24 :: 480 : ?
 (A) 192 (B) 72
 (C) 152 (D) 180
4. 125 : 216 :: 1331 : ?
 (A) 7128 (B) 1225
 (C) 1728 (D) 169
5. Marathon : Race :: Hibernation : ?
 (A) Sleep (B) Winter
 (C) Bear (D) Dream
6. Elated : Despondent :: Enlightened : ?
 (A) Miserable (B) Aware
 (C) Tolerant (D) Ignorant

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

7. (A) 729 - 27 (B) 361 - 19
 (C) 476 - 22 (D) 676 - 26
8. (A) BDEG (B) ACEH
 (C) MOQT (D) SUWZ
9. (A) Earthquake (B) Cyclone
 (C) Famine (D) Flood
10. (A) Revoke (B) Nullify
 (C) Expunge (D) Enforce
11. (A) 343 (B) 2401
 (C) 149 (D) 49

12. Arrange the following words as per order in the English dictionary :

1. rationalism
2. rationale
3. rationalization
4. rationalize
5. rationality

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

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

ab_b_cbacba_ba_cabcb

- (A) caba (B) cbbb
 (C) bccb (D) acbc

14. In the following series, how many FNU occur in such a way that 'N' is in the middle and 'F' and 'U' are adjacent to it on both sides ?

UHGNUMUFNUNFTFNUIJKNENUT

- (A) 6 (B) 2
 (C) 3 (D) 4

15. Which one of the given responses would be a meaningful order of the following ?

1. Large intestine
2. Rectum
3. Small intestine
4. Mouth
5. Stomach
6. Oesophagus

- (A) 5, 4, 2, 3, 6, 1 (B) 6, 4, 2, 1, 3, 5
 (C) 4, 6, 3, 2, 5, 1 (D) 4, 6, 5, 3, 1, 2

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. 3, 11, 38, 102, 227, ?

- (A) 245 (B) 487
 (C) 474 (D) 443

17. 3, 15, 8, 24, 15, 35, ? , 48, 35

- (A) 24 (B) 46
 (C) 26 (D) 25

निर्देश
सम्बन्ध

1.

2.

3.

4.

5.

18. AER, DIT, GMV, ?

- (A) JXQ (B) JQX ✓
(C) QJX (D) XJQ

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

KNOWLEDGE

- (A) WEDGE ✓ (B) WONDER
(C) WEALTH ✓ (D) FETCH

20. From the given alternative words, select the word which **cannot** be formed using the letters of the given word.

NEIGHBOURHOOD

- (A) GROUND (B) HONOUR
(C) BRAND ✓ (D) ROUGH

21. The ratio of the present ages of Sunita and Vinita is 4 : 5. Six years hence, the ratio of their ages will be 14 : 17. What will be the ratio of their ages 12 years hence ?

- (A) 17 : 19 (B) 15 : 19
(C) 13 : 15 (D) 16 : 19

22. Arun is heavier than Govind. Manoj is lighter than John. Pravin is heavier than John but lighter than Govind. Who is the heaviest ?

- (A) Govind (B) John
(C) Arun ✓ (D) Pravin

23. Rama is Sallu's brother; Heera is Sallu's sister's only son. Heera married Rama's daughter. What is the relation between Rama and Neha, who is Heera's daughter ?

- (A) Grandmother - granddaughter ✓
(B) Uncle - niece
(C) Father - daughter
(D) Grandfather - granddaughter ✓

24. If in a certain code 'DICKINSON' is written as '357950210' and 'DIPP' is written as '3566', then how can 'PICNIC' be written in the same code ?

- (A) 650757 (B) 657057 ✓
(C) 657507 (D) 560757

25. Given below are capital letters in the first line and symbols in the second line. Symbols and letters are code for each other. Choose the correct code for given letters.

A	C	E	G	H	I	O	N	P	R	T	S	B	D	M
+	-	÷	×	=	()	[]	≠		#		>	<

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T # ((||
(A) [≠] | | (B) | # () ||
(C) | ≠ (| || ✓ (D) | || (| |

26. Which of the following interchange of signs would make the equation correct ?

- $49 \div 7 + 7 = 14$
(A) ÷ and -
(B) + and - ✓
(C) - and ÷
(D) - and +

27. Some letters are given with numbers from 1 to 8. Select the sequence of numbers which arranges the letters into a meaningful word.

- l d w o a o n d
1 2 3 4 5 6 7 8
(A) 1, 8, 3, 5, 2, 4, 6, 7
(B) 4, 2, 1, 6, 5, 8, 3, 7 ✓
(C) 2, 4, 3, 7, 1, 6, 5, 8
(D) 6, 3, 2, 1, 8, 5, 4, 7

28. If in a certain code, 'RESPONSES' is written as 'ESRONPESS', then how can 'SIGNATURE' be written in the same code ?

- (A) ISNGTARUE
(B) ERUTANGIS
(C) GISTANERU
(D) IGSATNREU ✓

Handwritten notes and diagrams at the bottom left, including arrows and numbers.

Handwritten diagram at the bottom center, showing a grid with letters R, S, H, T and arrows.

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

$$2 * 3 = 17; 3 * 4 = 145; 5 * 2 = ?$$

- (A) 85 (B) 75
(C) 57 (D) 25

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

$$(8 * 5 * 6) * 10 * 24$$

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

31. If '>' stands for 'division', 'v' stands for 'multiplication', '-' stands for 'greater than', 'x' stands for 'less than', '<' stands for 'addition', '^' stands for 'subtraction', '+' stands for 'equal to', then which of the following equations is correct ?

- (A) $9 \vee 3 - 1 + 6 > 8 \wedge 9$
(B) $5 \vee 4 < 2 + 10 \vee 2 < 2$
(C) $8 \vee 6 - 3 + 4 > 7 \wedge 6$
(D) $8 \vee 4 - 2 + 5 > 7 \wedge 6$

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

32.	3	4	9	16
	5	6	25	36
	7	8	?	64

- (A) 18 (B) 16
(C) 49 (D) 15

33.	25	18	36
	12	17	16
	5	2	?
	60	153	96

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

34.	6	11	25
	8	6	16
	12	5	?

- (A) 22 (B) 12
(C) 16 (D) 18

35. A man starts walking towards east. After walking 75 metres, he turns to his left and walks 25 metres straight. Again he turns to the left, walks a distance of 40 metres straight, again turns to the left and walks a distance of 25 metres. How far is he from the starting point ?

- (A) 115 m (B) 35 m
(C) 50 m (D) 140 m

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

Statement :

Some people are uneducated and therefore, superstitious.

Assumptions :

- I. Education increases rational thinking.
II. Some people do not go to schools.

- (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

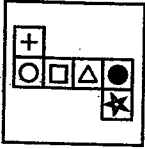
37. From his house, Ram went 15 km to the north. Then he turned to his left and covered 10 km. Then he again turned to his left and covered 5 km. Finally turning to the east, he covered 10 km. In which direction is he from his house ?

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

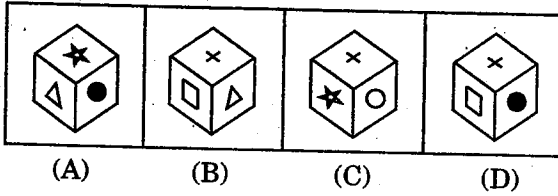
38. What inference can you draw from the following two statements ?
- Hybrid plants are resistant to fungus.
 - Fungal infection reduces the life of plants.
- (A) All plants are hybrid plants.
 (B) For a long life-span grow hybrid plants.
 (C) Fungus attacks hybrid plants.
 (D) Yield is more in hybrid plants.

39. Choose the cube which will be formed on folding the given question figure.

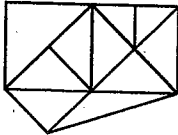
Question figure :



Answer figures :



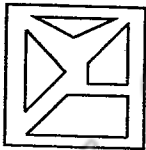
40. How many triangles are there in the given figure ?



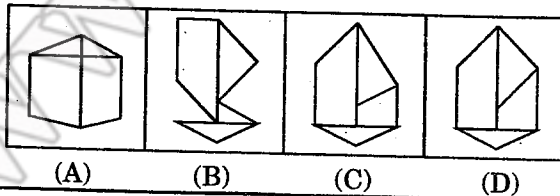
- (A) 19 or more (B) 10
 (C) 16 (D) 18

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

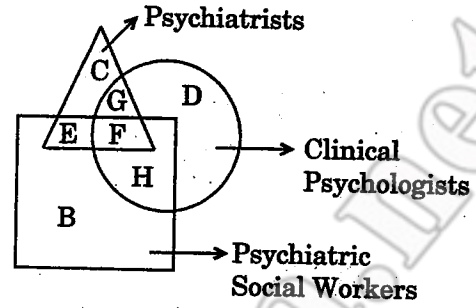
Question figure :



Answer figures :



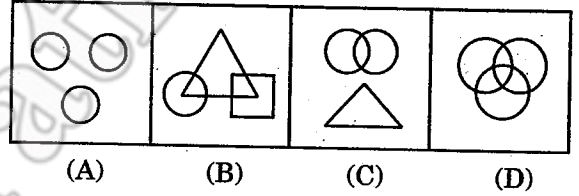
42. In the given figure, which letter represents Psychiatrists who are Clinical Psychologists, but not Psychiatric Social Workers ?



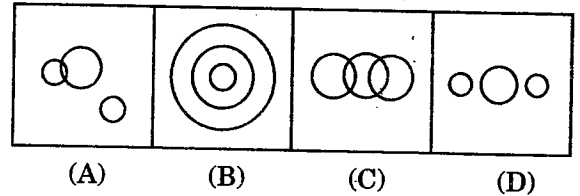
- (A) H (B) E
 (C) G (D) F

Directions : In questions no. 43 and 44, identify the diagram that best represents the relationship among the classes given.

43. Friend, Guide, Philosopher

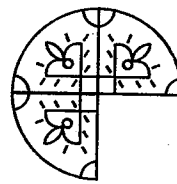


44. World, India, Rajasthan

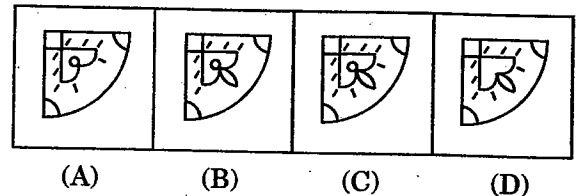


Directions : In questions no. 45 and 46, which answer figure will complete the pattern in the question figure ?

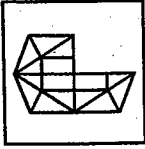
45. Question figure :



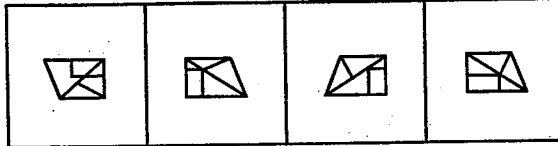
Answer figures :



46. Question figure :



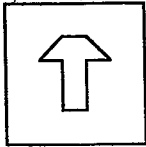
Answer figures :



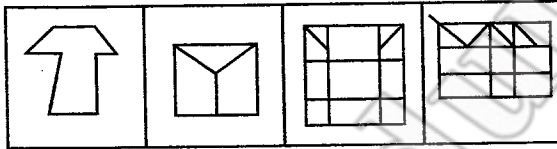
(A) (B) (C) (D)

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

Question figure :



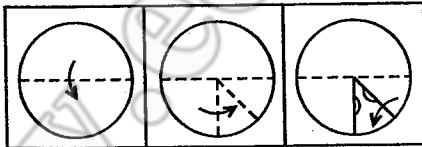
Answer figures :



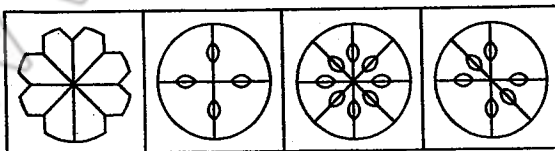
(A) (B) (C) (D)

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

Question figures :



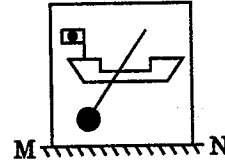
Answer figures :



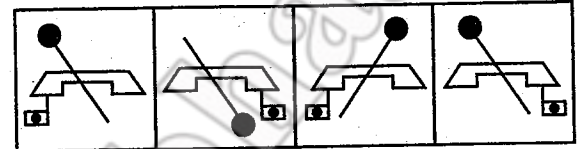
(A) (B) (C) (D)

49. If a mirror is placed on the line MN, then which of the answer figures is the right 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., 'A' can be represented by 34, 86, 97, etc., and 'T' can be represented by 31, 76, 96, etc. Similarly, you have to identify the number set for the word given below :

NOISE

Matrix I

	0	1	2	3	4
0	G	V	E	A	C
1	R	O	N	G	S
2	M	N	E	S	I
3	O	T	I	T	A
4	N	S	N	E	P

Matrix II

	5	6	7	8	9
5	R	E	O	N	G
6	N	P	V	E	S
7	M	T	I	O	N
8	E	A	I	C	O
9	N	T	A	R	S

(A) 79, 78, 77, 14, 20

(B) 40, 57, 77, 69, 79

(C) 21, 78, 87, 99, 88

(D) 12, 30, 32, 69, 85

FOR VISUALLY HANDICAPPED / CEREBRAL PALSY CANDIDATES ONLY

39. P, Q, R, S, T, U, V and W are sitting round a circle and are facing the centre.
- P is the second to the right of T who is the immediate neighbour of R and V.
 - S is not the neighbour of P.
 - V is the neighbour of U.
 - Q is not between S and W.
 - W is not between U and S.
- Which two of the following are *not* neighbours ?
- (A) Q, W (B) R, V
(C) U, V (D) R, P
40. 'Careful' is related to 'Cautious' in the same way as 'Boastful' is related to
- (A) Suspicious (B) Arrogant
(C) Humble (D) Joyful
41. Select the related number from the given alternatives.
- ABE : 8 :: FBD : ?
- (A) 12 (B) 14
(C) 13 (D) 15
42. Find the *wrong* number in the given number series.
- 52, 51, 49, 46, 41, 37
- (A) 51 (B) 37
(C) 41 (D) 49
43. Which answer word forms a necessary part of the given word ?
- Itinerary
- (A) Guide book
(B) Map
(C) Route
(D) Travel (Tourism)
44. If the value of SEPTEMBER is 54, JANUARY is 42 and DECEMBER is 48, what is the value of AUGUST ?
- (A) 48 (B) 26
(C) 30 (D) 36
45. In the following list of English alphabets one alphabet has not been used. Identify the same.
- YMGBQTUXMUNEFZNHCDRYKUMPQ
WSDRAPIJHPEIQUTNSBCFGHOVAF
- (A) K (B) M
(C) L (D) A
46. In a class of 40 students, Ajith has got 28th rank from last, Babu has got 16th rank from first, Chandra has got 31st from last, Bhuvana has got 14th from first. Who got the top rank among themselves ?
- (A) Bhuvana (B) Chandra
(C) Ajith (D) Babu
47. If Sheela celebrated her marriage anniversary on Wednesday, 6th January 1965, when will she celebrate her marriage anniversary on the same day ?
- (A) 6th January 1974
(B) 6th January 1970
(C) 6th January 1971
(D) 6th January 1972
48. How many 9's immediately preceded by 5 but not immediately followed by 6 are there in the following number series ?
- 17832596341026785914
359617248359716203
- (A) Four (B) One
(C) Two (D) Three
49. A, B and C are intelligent; A, D and E are laborious; D, C and E are honest; and A, B and E are ambitious. Which of the following are *not* honest ?
- (A) C, A and B (B) A and B
(C) C and A (D) A and D
50. Vivek takes 15 seconds to stand up from the ground and 11 seconds to sit on the ground. Within 93 seconds, how many times must he have stood up ?
- (A) 6 (B) 3
(C) 5 (D) 4

PART B : GENERAL AWARENESS

51. Interest paid to a bank for a crop loan is
(A) intermediate consumption
(B) a transfer payment
(C) a factor payment
(D) capital formation
52. Economic growth refers to
(A) continuous growth of agriculture sector
(B) prevention of concentration of wealth
(C) continuous growth of national income for at least two years
(D) continuous growth of per capita real income over a period of time in an economy
53. Which of the following statements is *incorrect* ?
(A) Economy faces the problem of excess of resources.
(B) The central problem of an economy is the problem of allocation of resources.
(C) Economy faces the problem of utilisation of resources.
(D) Economy faces the problem of growth of resources.
54. In the case of direct taxes, the payment liability and the ultimate burden of the tax lies upon
(A) both on whom it has been imposed and on whom it is not imposed
(B) the person on whom it has been imposed
(C) the person on whom it has not been imposed
(D) the tax department who collects the taxes
55. Which of the following systems is based on the principle of surplus value ?
(A) Communism (B) Capitalism
(C) Individualism (D) Idealism
56. Which of the following provides Representative Government ?
(A) Presidential form of Government
(B) Indirect Democracy
(C) Direct Democracy
(D) Democracy
57. What is the main duty of the Legislature ?
(A) Central administration
(B) Enacting laws
(C) Implementing judicial matters
(D) Implementing laws
58. Chandragupta Maurya spent his last days at
(A) Kashi (B) Pataliputra
(C) Ujjain (D) Sravanabelgola
59. If only a part of the labour force employed by a firm can be dismissed at any time and without pay, the total wages and salaries paid by the firm must be considered
(A) neither a fixed cost nor a variable cost
(B) a variable cost
(C) a fixed cost
(D) partly a fixed and partly a variable cost
60. Members of the Union Public Service Commission are appointed by the
(A) Law Minister
(B) President
(C) Prime Minister
(D) Chief Justice
61. Who said, "A state is known by the rights that it maintains" ?
(A) Machiavelli (B) Laski
(C) MacIver (D) J.S. Mill

62. A member of Liliaceae that shows reticulate venation is
 (A) *Allium* (B) *Scilla*
 (C) *Smilax* (D) *Aloe*
63. Euphenics is
 (A) Treatment of defective heredity through genetic engineering
 (B) Manipulation of genes
 (C) Improvement of race
 (D) Study of conditions affecting organisms
64. Araneology is
 (A) Study of mites
 (B) Rearing of bees
 (C) Study of aphids
 (D) Study of spiders
65. What does "Corpus luteum" secrete?
 (A) Progesterone
 (B) Testosterone
 (C) Estrogen
 (D) Haemoglobin
66. The male sex hormone is
 (A) Progesterone (B) Estrogen
 (C) Testosterone (D) Insulin
67. Buddha died in the year
 (A) -483 BC (B) 438 BC
 (C) 453 BC (D) 468 BC
68. The new name of Burma is Myanmar and its capital is
 (A) Naypyidaw (B) Arakan
 (C) Rangoon (D) Ava
69. The famous Jain centre in South India is located at
 (A) Rameshwaram
 (B) Kanchi
 (C) Madurai
 (D) Sravanabelgola
70. The Asokan Inscriptions were engraved in which script?
 (A) Magadhi
 (B) Brahmi
 (C) Pali
 (D) Devanagari script
71. Which of the following lakes is called 'Honeymoon Lake'?
 (A) Nyasa (B) Chad
 (C) Titicaca (D) Toba
72. Harmattan blows in Sahara desert from
 (A) South to North
 (B) East to West
 (C) West to East
 (D) North to South
73. The busiest ocean from the point of view of trade is
 (A) Arctic Ocean
 (B) Pacific Ocean
 (C) Indian Ocean
 (D) Atlantic Ocean
74. The forest in Silent Valley of Kerala is an example of
 (A) mangrove forest
 (B) deciduous forest
 (C) tropical rainforest
 (D) alpine coniferous forest
75. Annaimudi peak is located in the
 (A) Sahyadri (B) Eastern Ghats
 (C) Nilgiri hills (D) Palni hills
76. Commercially important cotton fibres are
 (A) bark fibres of stems
 (B) epidermal hairs of seeds
 (C) woody fibres of roots
 (D) phloem fibres of roots

77. Herman Hollerith had perfected his tabulating system and developed a machine called
- Analytical Engine
 - Census Tabulator
 - Tabulation Engine
 - None of the above
78. DBMS used for building computer applications stands for
- Database Micro System
 - Database Machine System
 - Database Maintenance System
 - Database Management System
79. The total energy of an electron inside an atom is
- infinite
 - zero
 - more than zero
 - less than zero
80. The velocity of light is
- 3×10^8 m/sec
 - 3×10^8 km/sec
 - 3×10^8 miles/sec
 - 3×10^8 cm/sec
81. A seconds pendulum is a pendulum whose time period is
- 1 second
 - 4 seconds
 - 3 seconds
 - 2 seconds
82. A jug is filled to the brim with water at 0°C . A piece of ice floats in it. The moment the ice melts,
- water spills out of the jug
 - water level increases
 - water level decreases
 - water level is unchanged
83. The rusting of metal iron in air needs both
- Oxygen and grease
 - Oxygen and moisture
 - Carbon dioxide and moisture
 - Water and paint
84. Arsenic problem in India is primarily due to
- Overexploitation of surface water in the affected areas
 - Overexploitation of arsenopyrite in the hinterland
 - Overexploitation of coal in Bihar and Bengal
 - Overexploitation of ground water in the affected areas
85. Acid rain is caused by
- NO_2 and O_2
 - CO and CO_2
 - SO_2 and O_2
 - SO_2 and NO_2
86. Iodine test is used to detect
- Cholesterol
 - Carbohydrate
 - Protein
 - Fat
87. Which of the following is used in pencils?
- Charcoal
 - Graphite
 - Sulphur
 - Phosphorus
88. The branch of medicine involving synthetic chemical compounds is
- Unani
 - Ayurveda
 - Allopathy
 - Homoeopathy

89. Who is the author of the book "Romancing With Life" ?
 (A) Shashi Tharoor
 (B) Bill Clinton
 (C) Kapil Dev
 (D) Dev Anand
90. Which Mughal Emperor prohibited the use of tobacco ?
 (A) Muhammad Shah
 (B) Babur
 (C) Jahangir
 (D) Aurangzeb
91. A South Rajasthani tribe earning its living by song and dance is
 (A) Mayas (B) Moors
 (C) Khasis (D) Garasia
92. Hydrogen was discovered by
 (A) Cavendish
 (B) Priestley
 (C) Boyle
 (D) Charles
93. The biggest delta in the world is the
 (A) Nippon Delta
 (B) Sicily Delta
 (C) Ganges Delta
 (D) Caspian Delta
94. Absorption of water from cut ends of stems disproves the
 (A) Imbibitional pressure theory
 (B) Theory of Capillarity
 (C) Cohesion-tension theory
 (D) Root pressure theory
95. The loss of water in the form of water droplets is called
 (A) Bleeding
 (B) Transpiration
 (C) Guttation
 (D) Evaporation
96. "Vatsalya Mela" is annually organised in
 (A) Chandigarh (B) Bangalore
 (C) New Delhi (D) Bhopal
97. Who is the Director General of the BBC ?
 (A) Tony Hall
 (B) Jimmy Savile
 (C) George Entwistle
 (D) Karan Thapar
98. Who is Australia's High Commissioner to India ?
 (A) Simon Tirkey
 (B) M.P. Samuel
 (C) Peter Varghese
 (D) Patrick Suckling
99. Who was elected as the President of All India Football Federation ?
 (A) Praful Patel
 (B) Hardev Jadeja
 (C) Subrata Dutta
 (D) Shrinivas V. Dempo
100. Who took over as the Chairman of Tata Sons ?
 (A) Ratan Tata
 (B) Shapoor Mistry
 (C) Ravikant
 (D) Cyrus Pallonji Mistry

PART C : QUANTITATIVE APTITUDE

101. The area of the iron sheet required to prepare a cone 24 cm high with base radius 7 cm is (Take $\pi = \frac{22}{7}$)
- (A) 408 cm^2 (B) 708 cm^2
 (C) 804 cm^2 (D) 704 cm^2
102. The least prime number is
- (A) 2 (B) 0
 (C) 1 (D) 3
103. Find the least number which when divided by 12, 18, 36 and 45 leaves the remainder 8, 14, 32 and 41 respectively.
- (A) 186 (B) 176
 (C) 180 (D) 178
104. An empty pool being filled with water at a constant rate takes 8 hours to fill $\frac{3}{5}$ of its capacity. How much more time will it take to finish filling the pool?
- (A) 4 hours 50 minutes
 (B) 5 hours 30 minutes
 (C) 5 hours 20 minutes
 (D) 4 hours 48 minutes
105. P can do a piece of work in 9 days. Q is 50% more efficient than P. The number of days it takes for Q to do the same piece of work is
- (A) 3 (B) $13\frac{1}{2}$
 (C) $4\frac{1}{2}$ (D) 6
106. Sixteen men can complete a work in fifteen days, twenty-four children can do the same work in twenty days. In how many days will eight men and eight children, complete the same work?
- (A) 18 days (B) 16 days
 (C) $13\frac{1}{3}$ days (D) 20 days
107. What is a better investment, 4% stock at ₹ 120 or 3% stock at ₹ 80?
- (A) First (B) Second
 (C) Both (D) None of these
108. 20% raise of price followed by a discount of 25% of the raised portion will
- (A) decrease the price by 15%
 (B) increase the price by 10%
 (C) decrease the price by 5%
 (D) increase the price by 15%
109. The sum of the ages of two brothers, having a difference of 8 years between them, will double after 10 years. What is the ratio of the age of the younger brother to that of the elder brother?
- (A) 10 : 13 (B) 7 : 11
 (C) 3 : 7 (D) 8 : 9
110. On decreasing each side of an equilateral triangle by 2 cm, there is a decrease of $4\sqrt{3} \text{ cm}^2$ in its area. The length of each side of the triangle is
- (A) 8 cm (B) 3 cm
 (C) 5 cm (D) 6 cm
111. A rectangular tin sheet is 12 cm long and 5 cm broad. It is rolled along its length to form a cylinder by making the opposite edges just to touch each other. Then the volume of the cylinder is
- (A) $\frac{60}{\pi} \text{ cm}^3$ (B) $\frac{180}{\pi} \text{ cm}^3$
 (C) $\frac{120}{\pi} \text{ cm}^3$ (D) $\frac{100}{\pi} \text{ cm}^3$
112. A merchant advertises 10% off on the items bought from his store. The total discount got by a customer who bought a cooker worth ₹ 650, a heater worth ₹ 500 and a bag worth ₹ 65 is
- (A) ₹ 121.50 (B) ₹ 120.50
 (C) ₹ 123.50 (D) ₹ 128.50

10. $2x + 3y = \frac{11}{2}$ and $xy = \frac{5}{6}$, then the value

* of $8x^3 + 27y^3$ is

a) 583

(B) $\frac{583}{4}$

(C) 187

(D) $\frac{671}{8}$

114. If $x^4 + \frac{1}{x^4} = 119$, then the value of $x^3 - \frac{1}{x^3}$

is

(A) ± 33

(B) 36

(C) -36

(D) ± 36

115. The ratio of two numbers is 3 : 4 and their LCM is 180. The second number is

(A) 30

(B) 60

(C) 45

(D) 90

116. Out of 30 teachers of a school, a teacher of age 60 years retired. In his place another teacher of age 30 years was appointed. As a result, the mean age of the teachers will

(A) decrease by 2 years

(B) decrease by 6 months

(C) decrease by 1 year

(D) remain same

117. Average age of A, B and C is 84 years. When D joins them the average age becomes 80 years. A new person, E, whose age is 4 years more than D, replaces A and the average of B, C, D and E becomes 78 years.

What is the age of A ?

(A) 50 years

(B) 60 years

(C) 70 years

(D) 80 years

118. By selling an article for ₹ 450, a man loses 10%. The gain or loss percent if he sells it for ₹ 540 is

(A) gain 8%

(B) loss 8%

(C) gain 9%

(D) loss 9%

119. A man loses $20\frac{1}{2}\%$ of his money and after spending 80% of the remainder, he is left with ₹ 159. How much did he have at first ?

(A) ₹ 1,200

(B) ₹ 500

(C) ₹ 800

(D) ₹ 1,000

120. A gun is fired at a distance of 1.34 km from Geeta. She hears the sound after 4 secs. The speed at which sound travels is

(A) 325 m/sec

(B) 335 m/sec

(C) 330 m/sec

(D) 300 m/sec

121. If I walk at 5 km/hr, I miss a train by 7 minutes. However, if I walk at 6 km/hr I reach the station 5 minutes before the departure of the train. The distance between my house and the station is

(A) 5 km

(B) 6.5 km

(C) 7 km

(D) 6 km

122. The compound interest on ₹ 1,800 at 10% per annum for a certain period of time is ₹ 378. Find the time in years.

(A) 2.0 years

(B) 2.8 years

(C) 3.0 years

(D) 2.5 years

123. The value of 204×197 is

(A) 40218

(B) 40188

(C) 40212

(D) 39812

124. The value of $\left\{ \left(\sqrt[n]{x^2} \right)^{n/2} \right\}^2$ is

(A) $\frac{1}{x^2}$

(B) x

(C) $x^{n/2}$

(D) x^2

125. If $(\sqrt{3})^5 \times 9^2 = 3^n \times 3\sqrt{3}$, then find the value of n.

(A) 5

(B) 2

(C) 3

(D) 4

126. If $p = 99$, then the value of $p(p^2 + 3p + 3)$ is

(A) 10000001

(B) 9999999

(C) 1000001

(D) 999999

127. $\sin^6 \theta + \cos^6 \theta$ is equal to

- (A) 1
- (B) $1 - 3 \sin^2 \theta \cos^2 \theta$
- (C) $1 - 3 \sin \theta \cos \theta$
- (D) $1 + 3 \sin^2 \theta \cos^2 \theta$

128. If $\tan \theta + \cot \theta = 2$, $0 < \theta < 90^\circ$, then the value of θ is

- (A) 75°
- (B) 30°
- (C) 45°
- (D) 60°

129. The expression $1 + \frac{\cot^2 A}{1 + \operatorname{cosec} A}$ is equal to

- (A) $\operatorname{cosec} A$
- (B) $\sin A$
- (C) $\cos A$
- (D) $\tan A$

130. The shadow of a tower standing on a level ground is found to be 40 m longer when the sun's altitude is 30° than when it is 60° . Find the length of the tower.

- (A) $20\sqrt{3}$ m
- (B) 10 m
- (C) $10\sqrt{3}$ m
- (D) 20 m

131. The length of the shadow of a tower is 9 metres when the sun's altitude is 30° . What is the height of the tower?

- (A) $3\sqrt{3}$ m
- (B) $4\frac{1}{2}$ m
- (C) $9\sqrt{3}$ m
- (D) $\frac{9\sqrt{3}}{2}$ m

132. If $\{\frac{1}{2}(a-b)\}^2 + ab = p(a+b)^2$, then the value of p is (assume that $a \neq -b$)

- (A) $\frac{1}{8}$
- (B) 1
- (C) $\frac{1}{2}$
- (D) $\frac{1}{4}$

133. If $999x + 888y = 1332$ and $888x + 999y = 555$, then $x^2 - y^2$ is equal to

- (A) 9
- (B) 5
- (C) 7
- (D) 8

134. In two similar triangles ABC and MNP, if $AB = 2.25$ cm, $MP = 4.5$ cm and $PN = 7.5$ cm and $m\angle ACB = m\angle MNP$ and $m\angle ABC = m\angle MPN$, then the length of side \overline{BC} , in cm, is

- (A) 4.5
- (B) 3.75
- (C) 4.75
- (D) 3.5

135. Given an equilateral $\triangle ABC$, D, E, F are the mid-points of AB, BC and AC respectively. Then the quadrilateral BEFD is exactly a

- (A) rhombus
- (B) square
- (C) rectangle
- (D) trapezium

136. If ABCD is a cyclic parallelogram, then the $\angle A$ is

- (A) 100°
- (B) 60°
- (C) 80°
- (D) 90°

137. AC is a chord of circle whose centre is at O. If B is any point on the arc AC and $\angle OCA = 20^\circ$, then the magnitude of $\angle ABC$ is

- (A) 110°
- (B) 100°
- (C) 40°
- (D) 140°

138. The co-ordinates of the vertices of a right-angled triangle are P(3, 4), Q(7, 4) and R(3, 8), the right-angle being at P. The co-ordinates of the orthocentre of $\triangle PQR$ are

- (A) (5, 6)
- (B) (3, 4)
- (C) (7, 4)
- (D) (3, 8)

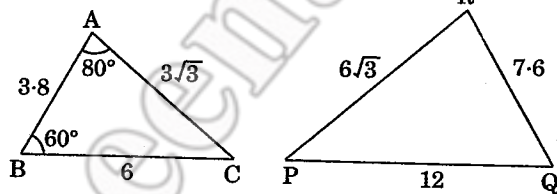
139. The value of $(\sec \theta + \operatorname{cosec} \theta)$ when $\theta = 45^\circ$, is

- (A) $5\sqrt{2}$
- (B) $3\sqrt{2}$
- (C) $4\sqrt{2}$
- (D) $2\sqrt{2}$

140. $\frac{\tan^2 \theta}{\sec \theta + 1} - \sec \theta$ is equal to

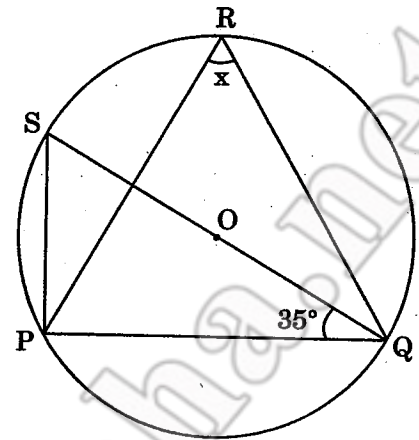
- (A) 1
- (B) 0
- (C) -1
- (D) None of these

141. A line graph
 (A) shows trend over time
 (B) compares structures
 (C) makes comparisons
 (D) None of the above
142. The heights of two similar right-angled triangles ΔLMN and ΔOPQ are 48 cm and 36 cm. If $OP = 12$ cm, then LM is
 (A) $\frac{10\sqrt{6}}{3}$ cm
 (B) 16 cm
 (C) 20 cm
 (D) 12 cm
143. Which of the following graphical representations of data represents cumulative frequencies?
 (A) Pie-chart
 (B) Histogram
 (C) Frequency polygon
 (D) Ogive
144. In the given figures, the lengths of the sides of ΔABC and ΔPQR are given and they are given in same units. Also $\angle A$ and $\angle B$ are given. The value of $\angle P$ is



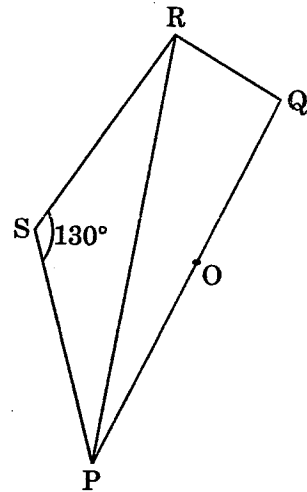
- (A) 42°
 (B) 36°
 (C) 38°
 (D) 40°

145. In the given figure, O is the centre. Then x is equal to



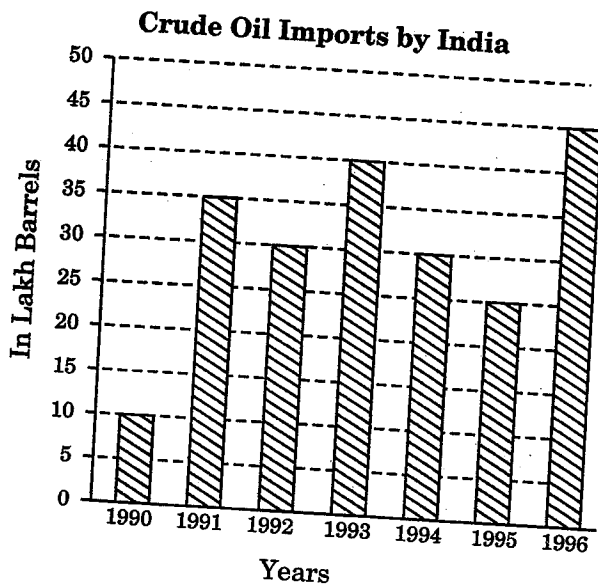
- (A) 60° (B) 45°
 (C) 55° (D) 65°

146. In the given figure, POQ is a diameter and $PQRS$ is a cyclic quadrilateral. If $\angle PSR = 130^\circ$, then the value of $\angle RPQ$ is



- (A) 30°
 (B) 40°
 (C) 45°
 (D) 35°

Directions : Study the following graph and answer the questions no. 147 to 150.



147. From year 1995 to the year 1996, what was the percentage increase in imports of crude oil ?
 (A) 60 (B) 90
 (C) 180 (D) None of these
148. From 1991 to 1992, what was the approximate percentage reduction in import of crude oil ?
 (A) 14 (B) 22
 (C) 18 (D) 8
149. In how many years were the imports higher than the average value of imports ?
 (A) 4 (B) 1
 (C) 2 (D) 3
150. If the rate of one barrel of crude oil was ₹ 25.60 in 1995, then what was the total value of imports (in ₹) in that year ?
 (A) 8.2 crores
 (B) 64 crores
 (C) 64 lakhs
 (D) 6.4 crores

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144. If $x = 997$, $y = 998$ and $z = 999$, then the value of $(x^2 + y^2 + z^2 - xy - yz - zx)$ is
 (A) 3 (B) 0
 (C) 1 (D) -1
145. If $p = 2 + \sqrt{3}$, then the value of $p + \frac{1}{p}$ will be
 (A) 2 (B) 8
 (C) 4 (D) 3
146. A man travels a distance of 18 km from his house to an exhibition by tonga at 15 km/hr and returns back on cycle at 10 km/hr. Then the average speed for the whole journey is
 (A) 15 km/hr (B) 18 km/hr
 (C) 12 km/hr (D) 10 km/hr
147. The price of a radio set is raised by 40% above the cost price and sold at a discount of 10%. What will be the percentage of profit ?
 (A) 25% (B) 26%
 (C) 14% (D) 30%
148. If $2x = 3 + \frac{2}{x}$, then the value of $\frac{4x}{x^2 - x - 1}$ is
 (A) $\frac{8}{5}$ (B) 8
 (C) 4 (D) 2
149. Profit after selling a commodity for ₹ 425 is the same as the loss after selling it for ₹ 355. The cost of the commodity is
 (A) ₹ 400 (B) ₹ 385
 (C) ₹ 390 (D) ₹ 395
150. A watch is purchased for ₹ 400 and sold for ₹ 460. The profit percent is
 (A) 13% (B) 15%
 (C) 15.5% (D) 12%

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 priest emphasised / that it is the duty / of all Christians to love each other. / No error.
(A) (B) (C) (D)
152. The pond is flooded / with water because it is raining /
(A) (B)
continuously for the last three days. / No error.
(C) (D)
153. Scaling the high wall, / a vast expanse of greenery / reaching up to the horizon was seen. / No error.
(A) (B) (C) (D)
154. Any of the two / roads leads / to the station. / No error.
(A) (B) (C) (D)
155. This is the boy / who I think had won / the gold medal in the dance competition. / No error.
(A) (B) (C) (D)

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

156. The father was angry and cast _____ his son.
(A) down (B) about
(C) off (D) of
157. Indian masses are _____ law-abiding.
(A) far and away (B) by and large
(C) by far (D) by any means
158. The film we saw last night was boring. I wish I _____ it.
(A) shouldn't have seen
(B) hadn't seen
(C) didn't see
(D) wouldn't have seen
159. His old clothes and uncombed hair gave him a _____ appearance.
(A) disrespectful (B) disputatious
(C) discontented (D) disreputable

160. There are, as yet, no vegetation types or ecosystems whose study has been perfected to the extent that they no longer _____ ecologists.

- (A) challenge (B) hinder
(C) interest (D) require

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. Mollify
(A) Contradict (B) Disseminate
(C) Assuage (D) Persuade
162. Obstacle
(A) Denouement (B) Progress
(C) Hindrance (D) Cessation
163. Audacious
(A) Industrious (B) Uncaring
(C) Boisterous (D) Daring

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. Plummet
(A) Stagnate (B) Fall
(C) Soar (D) Equate
165. Volatile
(A) Fresh (B) Stable
(C) Angry (D) Favourable
166. Ebullient
(A) Spiritless (B) Soulless
(C) Mindless (D) Heartless

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. He immediately set about organizing the department.
(A) looked around (B) took charge
(C) started (D) took steps towards
168. Those intending to take up the military service must be prepared to go through the hoops.
(A) be made to pay heavy amounts of money
(B) be punished severely
(C) be made to undergo gruelling tests
(D) be made to sign bonds
169. He is playing ducks and drakes with the wealth of his father.
(A) spending diligently
(B) spending lavishly
(C) spending foolishly
(D) spending carefully
170. The Principal called the latecomers to her room and delivered a curtain lecture on the subject of late hours.
(A) dramatic lecture
(B) brief lecture
(C) cautionary talk given in private
(D) talk behind the curtain
171. The project to clean the River Ganga ended in smoke.
(A) yielded no practical result
(B) yielded only confusion
(C) yielded no profit
(D) yielded no plan

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

172. An early bird catches the worm.
(A) The early bird (B) A early bird
(C) Early bird (D) No improvement
173. As the tenant was in deficit with his rent we were forced to give him notice.
(A) behind (B) obligation
(C) difficulties (D) No improvement
174. The engaged couple fell head over heels in love.
(A) over head his heels in love
(B) on his heels over head in love
(C) in love head over the heels
(D) No improvement
175. Nightclubs are open far into night.
(A) into the night far
(B) far into the night
(C) into far night
(D) No improvement
176. The Field Marshal knew that untrained troops were no good to him, he needed complete veterans.
(A) seasoned (B) defiant
(C) well-maintained (D) No improvement
177. Once only did she give her way to emotions.
(A) Only once did she give way to emotions.
(B) Only once she did give way to her emotions.
(C) Once only did she give way to her emotions.
(D) No improvement
178. I don't think Harsh will beat Mohit at chess. Mohit is one too much for him.
(A) too much one (B) too many one
(C) one too many (D) No improvement
179. Throughout history, both ancient and modern, men were fond of waging war.
(A) had been (B) have been
(C) are (D) No improvement

180. Since your departure, nothing has been transpired here worth your notice.

- (A) worthy of note has been transpired here.
- (B) worthy of note has transpired here.
- (C) worth your notice has transpired here.
- (D) No improvement

181. Who can prevent you from getting married now that you are within age ?

- (A) in (B) of
- (C) on (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/sentence and indicate it by blackening the appropriate oval (●) in the Answer Sheet.

182. A large number of bullets fired at the same time

- (A) Fusillade (B) Rattle
- (C) Shoot (D) Archery

183. A tall, strong woman

- (A) Siren (B) Amazon
- (C) Harridan (D) Shrew

184. A difficult problem

- (A) Labyrinth (B) Maze
- (C) Conundrum (D) Puzzle

185. The policy of extending a country's empire and influence

- (A) Imperialism (B) Internationalism
- (C) Capitalism (D) Communism

186. A person who studies the origin and history of words

- (A) Ethnologist (B) Polyglot
- (C) Grammarian (D) Etymologist

187. A book which holds several works of one author

- (A) Anthology (B) Biography
- (C) Omnibus (D) Bibliotheque

188. One who deliberately damages other people's property

- (A) Arsonist (B) Destructor
- (C) Vandal (D) Vampire

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) Irrisistable (B) Irresistible
(C) Irresesteble (D) Irresistable

190. (A) Baroaque (B) Baroque
(C) Baruque (D) Barokue

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. No. 191 to 195)

Bertrand Russell in *The Conquest of Happiness* has said that the sole reason of unhappiness finding refuge in the heart of man is the unhindered growth of "self-centred passions". These passions are more often materialistic. And in the pursuit of materialistic passions, man becomes alienated from the society. Failure in his pursuit often leads him to discontentment and dejection and he finds himself a misfit in this world. In the modern world, none is unaffected by stress. The stress to outdo the other in this mad rat race of consumerism often leads to depression. Even children are not spared from this. They are supposed to fare better than their classmates in examinations and other co-curricular activities. So man, right from childhood, has to face the brunt of being born in this fast changing society.

A section of the youth, unable to cope with the expectations of their loved ones, either end their lives or experiment with drugs, for seeking temporary mental relaxation provided by the initial intake, encourages people to indulge in them more often. The body then becomes totally dependent on drugs and cannot survive without the daily dose. With regular intake the amount required to produce the effect also increases. This physical and mental dependence on drugs is called drug addiction.

Drug addiction is a psychiatric, psychological and social problem. While persons of all ages and at all places are open to drug use the most susceptible among them are the youth. It has attained the

proportions of almost an epidemic among the youth. It is mostly introduced to an unsuspecting person by his friends and is usually observed that once addicted to drugs, they initiate others to drugs. Some youngsters take to drugs because they are poked fun at if they do not use drugs. And some take drugs just to seek company or break boredom. In addition to these, other factors that lead to drug addiction are — lack of parental care and supervision, lack of moral and religious education, media and pop culture, broken homes, hatred for any authority, etc. Seeking refuge in drugs relieves tensions, eases depressions and removes inhibitions, although the period of ecstasy is apparently short-lived.

191. Which of the following statements is true ?
- (A) All youngsters take to drugs because they are mocked at if they do not use drugs.
 - (B) Drug addiction is a problem restricted to the youth.
 - (C) There is almost an epidemic of drug use among the youth.
 - (D) All youngsters take drugs just to break boredom.
192. The cycle of drug addiction involves
- (A) initiation, relaxation and de-addiction
 - (B) initiation, rehabilitation and addiction
 - (C) initiation, peer pressure and addiction
 - (D) initiation, relaxation and addiction
193. The reason cited by Bertrand Russell for the unhappiness of man is
- (A) Alienation from society
 - (B) Failure in life
 - (C) Materialistic self-centredness
 - (D) Stress to outdo others
194. The theme being developed by the writer is
- (A) The Conquest of Happiness
 - (B) Pressures of the modern world
 - (C) Problems emerging out of materialism
 - (D) Drug Addiction
195. What leads youth to drugs ?
- (A) Inability to cope with the demands of the modern world
 - (B) Rapid changes in the modern world
 - (C) Undue competition of the modern world
 - (D) A, B and C

Passage II (Q. No. 196 to 200)

A computer virus is a type of malware that, when executed, replicates by inserting copies of itself into other computer programs, data files, or the boot sector of the hard drive. However, not all viruses carry a destructive payload or attempt to hide themselves — the defining characteristic of viruses is that they are self-replicating computer programs which install themselves without the user's consent. Virus writers use social engineering and exploit detailed knowledge of security vulnerabilities to gain access to their host's computing resources. The vast majority of viruses (over 99%) target systems running Microsoft Windows employing a variety of mechanisms to infect new hosts, and often using complex anti-detection/stealth strategies to evade antivirus software. Motives for creating viruses can include seeking profit, desire to send a political message, personal amusement, to demonstrate that a vulnerability exists in software, for sabotage and denial of service, or simply because they wish to explore artificial life and evolutionary algorithms.

196. The vast majority of viruses evade antivirus softwares by
- (A) inserting copies of itself into programs
 - (B) targeting Microsoft Windows systems
 - (C) using complex anti-detection/stealth strategies
 - (D) exploiting detailed knowledge of security vulnerabilities
197. What is one of the motives of creating viruses ?
- (A) To sabotage and deny service
 - (B) To gain access to classified files
 - (C) To corrupt hard drives
 - (D) To exploit security knowledge
198. What is the synonym of 'vulnerability' in the passage ?
- (A) susceptibility
 - (B) liability
 - (C) responsibility
 - (D) accountability
199. What is the defining characteristic of a computer virus ?
- (A) Its ability to execute programs
 - (B) Its ability to affect the computer system
 - (C) Its ability to hide itself
 - (D) Its ability to self-replicate
200. How do virus writers gain access to computing resources ?
- (A) By executing malwares
 - (B) By employing a variety of mechanisms
 - (C) By using social engineering
 - (D) By affecting computing networks

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Southern Region

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121.A 122.B 123.A 124.A 125.C 126.B 127.C 128.A 129.B 130.A 131.D 132.D
133.D 134.C 135.B 136.A 137.A 138.C 139.A 140.B 141.B 142.D 143.C 144.B
145.D 146.A 147.B 148.C 149.B 150.C 151.B 152.C 153.C 154.B 155.B 156.D
157.C 158.B 159.C 160.C 161.C 162.B 163.A 164.C 165.B 166.B 167.D 168.C
169.A 170.C 171.A 172.A 173.B 174.B 175.D 176.D 177.B 178.C 179.A 180.C
181.B 182.C 183.A 184.C 185.D 186.A 187.B 188.D 189.A 190.A 191.A 192.B
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30.A 31.A 32.A 33.C 34.C 35.B 36.A 37.A 38.B 39.D 40.B 41.C 42.A 43.B
44.C 45.A 46.A 47.A 48.C 49.C 50.A 51.C 52.A 53.A 54.A 55.A 56.A 57.D

58.C 59.D 60.C 61.C 62.A 63.A 64.D 65.D 66.C 67.B 68.C 69.B 70.A 71.A
72.D 73.D 74.C 75.B 76.A 77.A 78.B 79.C 80.C 81.D 82.A 83.A 84.B 85.D
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100.C 101.C 102.B 103.D 104.D 105.C 106.A 107.A 108.A 109.B 110.A 111.A 112.C
113.D 114.C 115.A 116.B 117.A 118.D 119.D 120.B 121.C 122.B 123.A 124.A 125.C
126.D 127.B 128.D 129.A 130.C 131.C 132.A 133.B 134.A 135.C 136.C 137.A 138.A
139.B 140.B 141.D 142.A 143.C 144.B 145.D 146.A 147.B 148.C 149.B 150.C
151.D 152.B 153.C 154.C 155.A 156.C 157.A 158.D 159.B 160.B 161.D 162.D 163.B
164.A 165.A 166.C 167.B 168.C 169.A 170.C 171.D 172.A 173.B 174.D 175.C 176.A
177.A 178.B 179.B 180.A 181.B 182.A 183.C 184.B 185.A 186.B 187.B 188.C 189.C
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30.C 31.D 32.D 33.D 34.B 35.A 36.A 37.B 38.B 39.D 40.B 41.C 42.A 43.B
44.C 45.A 46.A 47.A 48.C 49.C 50.A 51.A 52.A 53.D 54.D 55.C 56.B 57.A
58.D 59.B 60.C 61.C 62.D 63.A 64.A 65.B 66.D 67.B 68.B 69.A 70.D 71.A
72.A 73.B 74.C 75.A 76.C 77.C 78.C 79.A 80.C 81.C 82.C 83.A 84.A 85.A
86.A 87.A 88.D 89.C 90.D 91.C 92.C 93.A 94.A 95.D 96.D 97.C 98.B 99.C
100.C 101.A 102.B 103.A 104.D 105.D 106.B 107.C 108.B 109.A 110.A 111.C 112.D
113.C 114.D 115.A 116.C 117.C 118.A 119.B 120.A 121.C 122.C 123.A 124.A 125.B
126.B 127.D 128.D 129.C 130.A 131.C 132.A 133.B 134.A 135.A 136.C 137.D 138.A
139.B 140.D 141.A 142.B 143.C 144.B 145.D 146.A 147.B 148.C 149.B 150.C
151.A 152.A 153.B 154.A 155.B 156.A 157.B 158.B 159.A 160.B 161.B 162.C 163.C
164.B 165.C 166.B 167.C 168.B 169.C 170.C 171.B 172.C 173.A 174.C 175.B 176.B
177.C 178.D 179.A 180.C 181.A 182.D 183.C 184.B 185.D 186.D 187.B 188.A
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44.C 45.A 46.A 47.A 48.C 49.C 50.A 51.C 52.C 53.C 54.A 55.C 56.C 57.C
58.A 59.A 60.A 61.A 62.A 63.D 64.C 65.D 66.C 67.C 68.A 69.A 70.D 71.D
72.C 73.B 74.C 75.C 76.A 77.A 78.D 79.D 80.C 81.B 82.A 83.D 84.B 85.A
86.C 87.D 88.A 89.A 90.B 91.D 92.B 93.B 94.C 95.D 96.A 97.A 98.B 99.C
100.A 101.C 102.C 103.A 104.A 105.B 106.A 107.D 108.D 109.C 110.A 111.C 112.B
113.B 114.B 115.A 116.C 117.D 118.A 119.A 120.B 121.A 122.D 123.D 124.B 125.C
126.A 127.A 128.A 129.C 130.D 131.C 132.B 133.A 134.C 135.C 136.A 137.B 138.D
139.D 140.A 141.B 142.B 143.C 144.B 145.D 146.A 147.B 148.C 149.B 150.C
151.C 152.C 153.D 154.C 155.B 156.C 157.B 158.A 159.C 160.D 161.B 162.C
163.A 164.D 165.C 166.A 167.D 168.D 169.B 170.A 171.B 172.B 173.B 174.C 175.A
176.C 177.D 178.A 179.B 180.D 181.C 182.A 183.C 184.A 185.A 186.A 187.B 188.A
189.B 190.B 191.A 192.B 193.B 194.C 195.B 196.B 197.B 198.B 199.C 200.C