EE

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO.

EE 2014

Test Form No.
टेस्ट फॉर्म सं.
654 SL 8

Time Allowed : 2 Hours (For VH / Cerebral Palsy Candidates : 2 hrs. 40 min.)   Maximum Marks : 200
निर्धारित समय : 2 घंटे (दृष्टिबाधित/सेरिब्रल पालसी उम्मीदवारों के लिए : 2 घंटे 40 मिनट)   अधिकतम अंक : 200

Read the following instructions carefully before you begin to answer the questions. This Booklet contains questions in English as well as in Hindi.
प्रश्नों के उत्तर देने से पहले नीचे लिखे अनुदेशों को ध्यान से पढ़ लें । इस पुस्तिका में प्रश्न अंग्रेज़ी तथा हिन्दी दोनों में दिये गये हैं ।

INSTRUCTIONS TO CANDIDATES

1. 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)

2. In questions set bilingually in English and Hindi, in case of discrepancy, the English version will prevail.

3. All questions are compulsory and carry equal marks.

4. *The paper carries negative marking. 0.25 marks will be deducted for each wrong answer.*

5. 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.*

6. 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.)

7. 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.

8. 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.

9. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.

10. Failure to comply with any of the above instructions will render a candidate liable to such action/penalty as may be deemed fit.

11. 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.

12. 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.

13. 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.

14. No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions.

15. *"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

1. 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 : अंग्रेज़ी परिज्ञान   (50 प्रश्न)

2. अंग्रेज़ी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेज़ी विवरण मान्य होगा ।

3. सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं ।

4. *प्रश्न-पत्र में नकारात्मक अंकन होगा । हर ग़लत उत्तर के लिए 0.25 अंक काटा जाएगा ।*

5. 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 पाएं, तो तत्काल इसके बदले दूसरी पुस्तिका ले लें ।

6. निरीक्षक द्वारा आपको उत्तर-पत्रिका अलग से दी जाएगी । उत्तर-पत्रिका के Side-I में नियमावली के अनुसार 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 ।)

7. 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 जाएंगे, उनके लिए कोई अंक नहीं दिया जाएगा ।

8. ओ.एम.आर. उत्तर-पत्रिका में भरी गई कूट सूचना को एक मशीन पढ़ेगी । यदि सूचना अपूर्ण है अथवा आवेदन पत्र में दी गई सूचना से भिन्न है, तो ऐसे उम्मीदवार को 'शून्य' अंक दिया जाएगा ।

9. परीक्षा भवन छोड़ने से पहले उम्मीदवार को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए ।

10. 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 ।

11. 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 ।

12. 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 ।

13. 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 ।

14. कोई रफ़ कार्य उत्तर-पत्रिका पर नहीं करना है । रफ़ कार्य के लिए स्थान प्रश्नों के नीचे दिया गया है ।

15. *"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 ऑफ 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 ।"*

SEAL

EE 2014/Page 1.   इस पुस्तिका की सील तब तक न खोलें जब तक कहा न जाए ।

PART A : GENERAL INTELLIGENCE & REASONING

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

1. 125 : 216 :: 1331 : ?
   - (A) 1728
   - (B) 169
   - (C) 7128
   - (D) 1225

2. Marathon : Race :: Hibernation : ?
   - (A) Bear
   - (B) Dream
   - (C) Sleep
   - (D) Winter

3. Elated : Despondent :: Enlightened : ?
   - (A) Tolerant
   - (B) Ignorant
   - (C) Miserable
   - (D) Aware

4. BFJN : KOSW :: DHLP : ?
   - (A) MQUY
   - (B) NRVZ
   - (C) CGKO
   - (D) FJNR

5. BPTF : ESWI :: ? : GDRY
   - (A) VAOD
   - (B) ADVO
   - (C) DVAO
   - (D) DAOV

6. 60 : 24 :: 480 : ?
   - (A) 152
   - (B) 180
   - (C) 192
   - (D) 72

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

7. (A) Expunge
   (B) Enforce
   (C) Revoke
   (D) Nullify

8. (A) 149
   (B) 49
   (C) 343
   (D) 2401

9. (A) 476 – 32
   (B) 676 – 26
   (C) 729 – 27
   (D) 361 – 19

10. (A) MOQT
    (B) SUWZ
    (C) BDEG
    (D) ACEH

11. (A) Famine
    (B) Flood
    (C) Earthquake
    (D) Cyclone

12. 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) 4, 6, 3, 2, 5, 1
    - (B) 4, 6, 5, 3, 1, 2
    - (C) 5, 4, 2, 3, 6, 1
    - (D) 6, 4, 2, 1, 3, 5

13. Arrange the following words as per order in the English dictionary :
    1. rationalism   2. rationale
    3. rationalization 4. rationalize
    5. rationality
    - (A) 1, 3, 5, 4, 2
    - (B) 1, 2, 3, 4, 5
    - (C) 2, 1, 5, 3, 4
    - (D) 2, 3, 5, 1, 4

14. 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) bccb
    - (B) acbc
    - (C) caba
    - (D) cbbb

15. 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 ?

    UHGNUFUFNUNFTFNUIJKNFNUT
    - (A) 3
    - (B) 4
    - (C) 6
    - (D) 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, 15, 8, 24, 15, 35, ? , 48, 35
    - (A) 26
    - (B) 25
    - (C) 24
    - (D) 46

17. AER, DIT, GMV, ?
    - (A) QJX
    - (B) XJQ
    - (C) JXQ
    - (D) JQX

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18. 3, 11, 38, 102, 227, __?__

(A) 474   (B) 443

(C) 245   (D) 487

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

(A) Arun   (B) Pravin

(C) Govind   (D) John

20. 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) Father – daughter

(B) Grandfather – granddaughter

(C) Grandmother – granddaughter

(D) Uncle – niece

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

KNOWLEDGE

(A) WEALTH   (B) FETCH

(C) WEDGE   (D) WONDER

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

NEIGHBOURHOOD

(A) BRAND   (B) ROUGH

(C) GROUND   (D) HONOUR

23. 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) 13 : 15   (B) 16 : 19

(C) 17 : 19   (D) 15 : 19

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

(A) GISTANERU

(B) IGSATNREU

(C) ISNGTARUE

(D) ERUTANGIS

25. 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) 657507   (B) 560757

(C) 650757   (D) 657057

26. 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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(A)] ≠ ([‖   (B)] ‖ ([‖

(C) [≠) [│   (D)] # ( ) ‖

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

$$49 - 7 + 7 = 14$$

(A) − and ÷

(B) − and +

(C) ÷ and −

(D) + and −

28. 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) 2, 4, 3, 7, 1, 6, 5, 8

(B) 6, 3, 2, 1, 8, 5, 4, 7

(C) 1, 8, 3, 5, 2, 4, 6, 7

(D) 4, 2, 1, 6, 5, 8, 3, 7

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

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

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

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

30. If '>' stands for 'division', '∨' stands for 'multiplication', '–' stands for 'greater than', '×' stands for 'less than', '<' stands for 'addition', '∧' stands for 'subtraction', '+' stands for 'equal to', then which of the following equations is correct ?

(A) $8 \vee 6 - 3 + 4 > 7 \wedge 6$

(B) $8 \vee 4 - 2 + 5 > 7 \wedge 6$

(C) $9 \vee 3 - 1 + 6 > 8 \wedge 9$

(D) $5 \vee 4 < 2 + 10 \vee 2 < 2$

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

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

(A) 57   (B) 25

(C) 85   (D) 75

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

32.

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

(A) 5   (B) 4

(C) 3   (D) 6

33.

6	11	25
8	6	16
12	5	?

(A) 16   (B) 18

(C) 22   (D) 12

34.

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

(A) 49   (B) 15

(C) 18   (D) 16

35. 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) Only assumption II is implicit

(B) Both assumptions I and II are implicit

(C) Neither assumption I nor II is implicit

(D) Only assumption I is implicit

36. 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) West   (B) North

(C) South   (D) East

37. 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) 50 m   (B) 140 m

(C) 115 m   (D) 35 m

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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) Fungus attacks hybrid plants.
(B) Yield is more in hybrid plants.
(C) All plants are hybrid plants.
(D) For a long life-span grow hybrid plants.

39. How many triangles are there in the given figure?
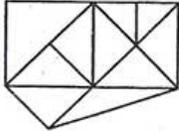
(A) 16
(B) 18
(C) 19 or more
(D) 10

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

Question figure :
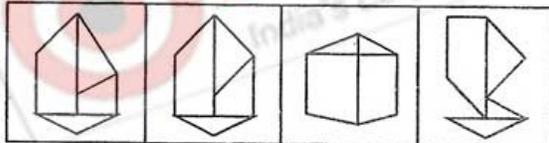
Answer figures :

(A)　　(B)　　(C)　　(D)

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

Question figure :
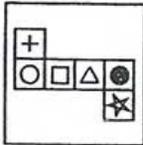
Answer figures :
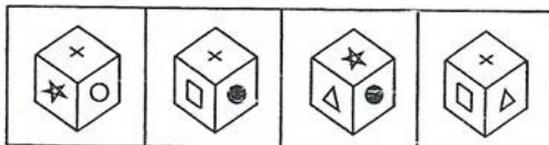
(A)　　(B)　　(C)　　(D)

42. In the given figure, which letter represents Psychiatrists who are Clinical Psychologists, but not Psychiatric Social Workers?
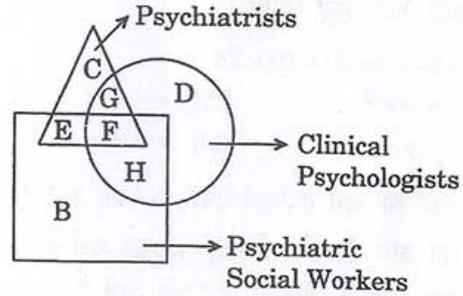
(A) G
(B) F
(C) H
(D) E

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

43. World, India, Rajasthan
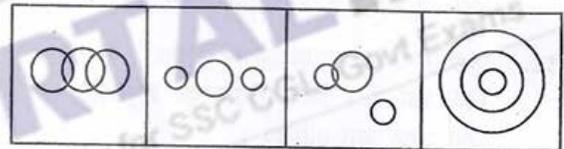
(A)　　(B)　　(C)　　(D)

44. Friend, Guide, Philosopher
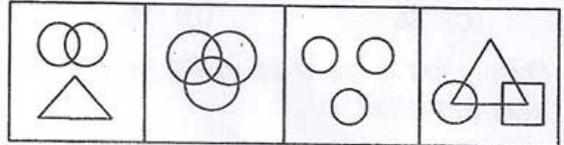
(A)　　(B)　　(C)　　(D)

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)

EE 2014/Page 8.　　SPACE FOR ROUGH WORK / रफ़ कार्य के लिए स्थान
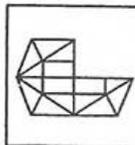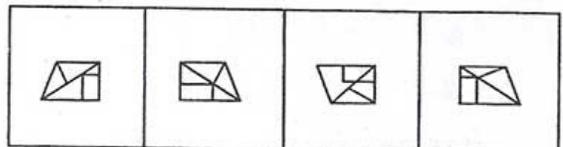
46. *Question figure :*
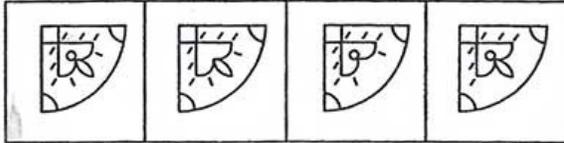
Answer figures :

(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 :
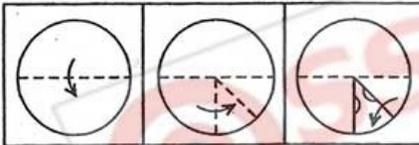
Answer figures :
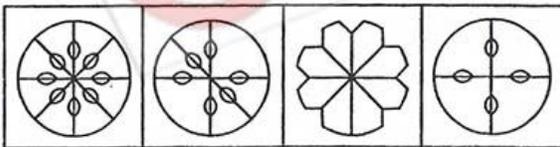
(A)   (B)   (C)   (D)

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

Question figure :
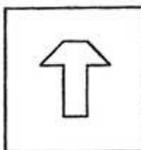
Answer figures :
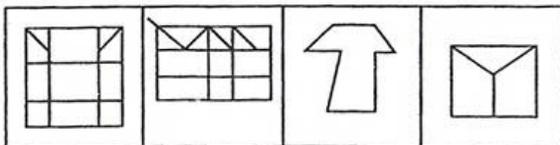
(A)   (B)   (C)   (D)

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., '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) 21, 78, 87, 99, 88

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

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

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

50. 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 :

M ⟍⟍⟍⟍⟍⟍⟍ N

Answer figures :

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

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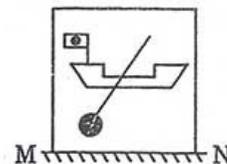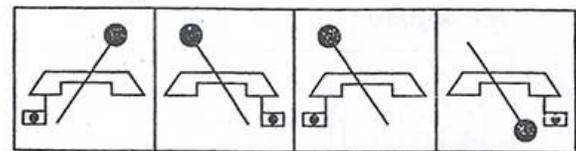
PART B : GENERAL AWARENESS

51. In the case of direct taxes, the payment liability and the ultimate burden of the tax lies upon

    (A) the person on whom it has not been imposed

    (B) the tax department who collects the taxes

    (C) both on whom it has been imposed and on whom it is not imposed

    (D) the person on whom it has been imposed

52. Interest paid to a bank for a crop loan is

    (A) a factor payment

    (B) capital formation

    (C) intermediate consumption

    (D) a transfer payment

53. Economic growth refers to

    (A) continuous growth of national income for at least two years

    (B) continuous growth of per capita real income over a period of time in an economy

    (C) continuous growth of agriculture sector

    (D) prevention of concentration of wealth

54. Which of the following statements is *incorrect* ?

    (A) Economy faces the problem of utilisation of resources.

    (B) Economy faces the problem of growth of resources.

    (C) Economy faces the problem of excess of resources.

    (D) The central problem of an economy is the problem of allocation of resources.

55. Which of the following provides Representative Government ?

    (A) Direct Democracy

    (B) Democracy

    (C) Presidential form of Government

    (D) Indirect Democracy

56. What is the main duty of the Legislature ?

    (A) Implementing judicial matters

    (B) Implementing laws

    (C) Central administration

    (D) Enacting laws

57. Chandragupta Maurya spent his last days at

    (A) Ujjain   (B) Sravanabelgola

    (C) Kashi   (D) Pataliputra

58. 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) a fixed cost

    (B) partly a fixed and partly a variable cost

    (C) neither a fixed cost nor a variable cost

    (D) a variable cost

59. Members of the Union Public Service Commission are appointed by the

    (A) Prime Minister

    (B) Chief Justice

    (C) Law Minister

    (D) President

60. Who said, "A state is known by the rights that it maintains" ?

    (A) MacIver   (B) J.S. Mill

    (C) Machiavelli   (D) Laski

61. Which of the following systems is based on the principle of surplus value ?

    (A) Individualism   (B) Idealism

    (C) Communism   (D) Capitalism

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62. The busiest ocean from the point of view of trade is
    (A) Indian Ocean
    (B) Atlantic Ocean
    (C) Arctic Ocean
    (D) Pacific Ocean

63. Buddha died in the year
    (A) 453 BC
    (B) 468 BC
    (C) 483 BC
    (D) 438 BC

64. The new name of Burma is Myanmar and its capital is
    (A) Rangoon
    (B) Ava
    (C) Naypyidaw
    (D) Arakan

65. The famous Jain centre in South India is located at
    (A) Madurai
    (B) Sravanabelgola
    (C) Rameshwaram
    (D) Kanchi

66. The Asokan Inscriptions were engraved in which script ?
    (A) Pali
    (B) Devanagari script
    (C) Magadhi
    (D) Brahmi

67. Which of the following lakes is called 'Honeymoon Lake' ?
    (A) Titicaca
    (B) Toba
    (C) Nyasa
    (D) Chad

68. Harmattan blows in Sahara desert from
    (A) West to East
    (B) North to South
    (C) South to North
    (D) East to West

69. A member of Liliaceae that shows reticulate venation is
    (A) Smilax
    (B) Aloe
    (C) Allium
    (D) Scilla

70. Euphenics is
    (A) Improvement of race
    (B) Study of conditions affecting organisms
    (C) Treatment of defective heredity through genetic engineering
    (D) Manipulation of genes

71. Araneology is
    (A) Study of aphids
    (B) Study of spiders
    (C) Study of mites
    (D) Rearing of bees

72. What does "Corpus luteum" secrete ?
    (A) Estrogen
    (B) Haemoglobin
    (C) Progesterone
    (D) Testosterone

73. The male sex hormone is
    (A) Testosterone
    (B) Insulin
    (C) Progesterone
    (D) Estrogen

74. The forest in Silent Valley of Kerala is an example of
    (A) tropical rainforest
    (B) alpine coniferous forest
    (C) mangrove forest
    (D) deciduous forest

75. Annaimudi peak is located in the
    (A) Nilgiri hills
    (B) Palni hills
    (C) Sahyadri
    (D) Eastern Ghats

76. Commercially important cotton fibres are
    (A) woody fibres of roots
    (B) phloem fibres of roots
    (C) bark fibres of stems
    (D) epidermal hairs of seeds

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77. A seconds pendulum is a pendulum whose time period is
   (A) 3 seconds
   (B) 2 seconds
   (C) 1 second
   (D) 4 seconds

78. A jug is filled to the brim with water at 0°C. A piece of ice floats in it. The moment the ice melts,
   (A) water level decreases
   (B) water level is unchanged
   (C) water spills out of the jug
   (D) water level increases

79. Herman Hollerith had perfected his tabulating system and developed a machine called
   (A) Analytical Engine
   (B) Census Tabulator
   (C) None of the above
   (D) Tabulation Engine

80. DBMS used for building computer applications stands for
   (A) Database Maintenance System
   (B) Database Management System
   (C) Database Micro System
   (D) Database Machine System

81. The total energy of an electron inside an atom is
   (A) more than zero
   (B) less than zero
   (C) infinite
   (D) zero

82. The velocity of light is
   (A) 3×10^8 miles/sec
   (B) 3×10^8 cm/sec
   (C) 3×10^8 m/sec
   (D) 3×10^8 km/sec

83. Acid rain is caused by
   (A) SO_2 and O_2
   (B) SO_2 and NO_2
   (C) NO_2 and O_2
   (D) CO and CO_2

84. Iodine test is used to detect
   (A) Protein
   (B) Fat
   (C) Cholesterol
   (D) Carbohydrate

85. Which of the following is used in pencils ?
   (A) Sulphur
   (B) Phosphorus
   (C) Charcoal
   (D) Graphite

86. The branch of medicine involving synthetic chemical compounds is
   (A) Allopathy
   (B) Homoeopathy
   (C) Unani
   (D) Ayurveda

87. The rusting of metal iron in air needs both
   (A) Carbon dioxide and moisture
   (B) Water and paint
   (C) Oxygen and grease
   (D) Oxygen and moisture

88. Arsenic problem in India is primarily due to
   (A) Overexploitation of coal in Bihar and Bengal
   (B) Overexploitation of ground water in the affected areas
   (C) Overexploitation of surface water in the affected areas
   (D) Overexploitation of arsenopyrite in the hinterland

89. Who was elected as the President of All India Football Federation ?
    (A) Subrata Dutta
    (B) Shrinivas V. Dempo
    (C) Praful Patel
    (D) Hardev Jadeja

90. Absorption of water from cut ends of stems disproves the
    (A) Cohesion-tension theory
    (B) Root pressure theory
    (C) Imbibitional pressure theory
    (D) Theory of Capillarity

91. The loss of water in the form of water droplets is called
    (A) Guttation
    (B) Evaporation
    (C) Bleeding
    (D) Transpiration

92. "Vatsalya Mela" is annually organised in
    (A) New Delhi   (B) Bhopal
    (C) Chandigarh   (D) Bangalore

93. Who is the Director General of the BBC ?
    (A) George Entwistle
    (B) Karan Thapar
    (C) Tony Hall
    (D) Jimmy Savile

94. Who is Australia's High Commissioner to India ?
    (A) Peter Varghese
    (B) Patrick Suckling
    (C) Simon Tirkey
    (D) M.P. Samuel

95. Which Mughal Emperor prohibited the use of tobacco ?
    (A) Jahangir
    (B) Aurangzeb
    (C) Muhammad Shah
    (D) Babur

96. A South Rajasthani tribe earning its living by song and dance is
    (A) Khasis   (B) Garasia
    (C) Mayas   (D) Moors

97. Hydrogen was discovered by
    (A) Boyle
    (B) Charles
    (C) Cavendish
    (D) Priestley

98. The biggest delta in the world is the
    (A) Ganges Delta
    (B) Caspian Delta
    (C) Nippon Delta
    (D) Sicily Delta

99. Who took over as the Chairman of Tata Sons ?
    (A) Ravikant
    (B) Cyrus Pallonji Mistry
    (C) Ratan Tata
    (D) Shapoor Mistry

100. Who is the author of the book "Romancing With Life" ?
    (A) Kapil Dev
    (B) Dev Anand
    (C) Shashi Tharoor
    (D) Bill Clinton

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PART C : QUANTITATIVE APTITUDE

101. 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) $4\frac{1}{2}$ (B) 6

(C) 3 (D) $13\frac{1}{2}$

102. 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) $13\frac{1}{3}$ days (B) 20 days

(C) 18 days (D) 16 days

103. 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) 804 cm^2 (B) 704 cm^2

(C) 408 cm^2 (D) 708 cm^2

104. The least prime number is

(A) 1 (B) 3

(C) 2 (D) 0

105. Find the least number which when divided by 12, 18, 36 and 45 leaves the remainder 8, 14, 32 and 41 respectively.

(A) 180 (B) 178

(C) 186 (D) 176

106. An empty pool being filled with water at a constant rate takes 8 hours to fill $\frac{3}{5}^{th}$ of its capacity. How much more time will it take to finish filling the pool ?

(A) 5 hours 20 minutes

(B) 4 hours 48 minutes

(C) 4 hours 50 minutes

(D) 5 hours 30 minutes

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 5%

(B) increase the price by 15%

(C) decrease the price by 15%

(D) increase the price by 10%

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) 3 : 7 (B) 8 : 9

(C) 10 : 13 (D) 7 : 11

110. On decreasing each side of an equilateral triangle by 2 cm, there is a decrease of $4\sqrt{3}$ cm^2 in its area. The length of each side of the triangle is

(A) 5 cm (B) 6 cm

(C) 8 cm (D) 3 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) $\frac{120}{\pi}$ cm^3 (B) $\frac{100}{\pi}$ cm^3

(C) $\frac{60}{\pi}$ cm^3 (D) $\frac{180}{\pi}$ 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) ₹ 123·50 (B) ₹ 128·50

(C) ₹ 121·50 (D) ₹ 120·50

113. 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) 330 m/sec
    (B) 300 m/sec
    (C) 325 m/sec
    (D) 335 m/sec

114. The ratio of two numbers is 3 : 4 and their LCM is 180. The second number is
    (A) 45
    (B) 90
    (C) 30
    (D) 60

115. 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 1 year
    (B) remain same
    (C) decrease by 2 years
    (D) decrease by 6 months

116. 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) 70 years
    (B) 80 years
    (C) 50 years
    (D) 60 years

117. By selling an article for ₹ 450, a man loses 10%. The gain or loss percent if he sells it for ₹ 540 is
    (A) gain 9%
    (B) loss 9%
    (C) gain 8%
    (D) loss 8%

118. 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) ₹ 800
    (B) ₹ 1,000
    (C) ₹ 1,200
    (D) ₹ 500

119. The value of $\left\{\left(\sqrt[n]{x^2}\right)^{n/2}\right\}^2$ is
    (A) $x^{n/2}$
    (B) x^2
    (C) $\dfrac{1}{x^2}$
    (D) x

120. If $\left(\sqrt{3}\right)^5 \times 9^2 = 3^n \times 3\sqrt{3}$, then find the value of n.
    (A) 3
    (B) 4
    (C) 5
    (D) 2

121. If $p = 99$, then the value of $p(p^2 + 3p + 3)$ is
    (A) 1000001
    (B) 999999
    (C) 10000001
    (D) 9999999

122. If $2x + 3y = \dfrac{11}{2}$ and $xy = \dfrac{5}{6}$, then the value of $8x^3 + 27y^3$ is
    (A) 187
    (B) $\dfrac{671}{8}$
    (C) 583
    (D) $\dfrac{583}{4}$

123. If $x^4 + \dfrac{1}{x^4} = 119$, then the value of $x^3 - \dfrac{1}{x^3}$ is
    (A) -36
    (B) ± 36
    (C) ± 33
    (D) 36

124. 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) 7 km
    (B) 6 km
    (C) 5 km
    (D) 6·5 km

125. The compound interest on ₹ 1,800 at 10% per annum for a certain period of time is ₹ 378. Find the time in years.
    (A) 3·0 years
    (B) 2·5 years
    (C) 2·0 years
    (D) 2·8 years

126. The value of 204×197 is
    (A) 40212
    (B) 39812
    (C) 40218
    (D) 40188

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127. 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) (7, 4) (B) (3, 8)

(C) (5, 6) (D) (3, 4)

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

(A) $\frac{1}{2}$ (B) $\frac{1}{4}$

(C) $\frac{1}{8}$ (D) 1

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

(A) 7 (B) 8

(C) 9 (D) 5

130. 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) 4·75 (B) 3·5

(C) 4·5 (D) 3·75

131. 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) rectangle (B) trapezium

(C) rhombus (D) square

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

(A) 80° (B) 90°

(C) 100° (D) 60°

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

(A) 40° (B) 140°

(C) 110° (D) 100°

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

(A) 45° (B) 60°

(C) 75° (D) 30°

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

(A) cos A (B) tan A

(C) cosec A (D) sin A

136. 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) $10\sqrt{3}$ m (B) 20 m

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

137. 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) $9\sqrt{3}$ m (B) $\dfrac{9\sqrt{3}}{2}$ m

(C) $3\sqrt{3}$ m (D) $4\dfrac{1}{2}$ m

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

(A) $4\sqrt{2}$ (B) $2\sqrt{2}$

(C) $5\sqrt{2}$ (D) $3\sqrt{2}$

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

(A) 0 (B) 1

(C) -1 (D) None of these

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

(A) $1 - 3\sin\theta\cos\theta$

(B) $1 + 3\sin^2\theta\cos^2\theta$

(C) 1

(D) $1 - 3\sin^2\theta\cos^2\theta$

141. The heights of two similar right-angled triangles △ LMN and △ OPQ are 48 cm and 36 cm. If OP = 12 cm, then LM is

(A) 20 cm

(B) 12 cm

(C) $\dfrac{10\sqrt{6}}{3}$ cm

(D) 16 cm

142. Which of the following graphical representations of data represents cumulative frequencies ?

(A) Frequency polygon

(B) Ogive

(C) Pie-chart

(D) Histogram

143. A line graph

(A) compares structures

(B) shows trend over time

(C) makes comparisons

(D) None of the above

144. In the given figure, O is the centre. Then x is equal to
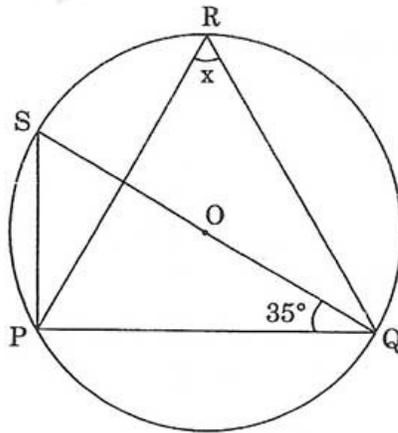
(A) 55°   (B) 65°

(C) 60°   (D) 45°

145. In the given figure, POQ is a diameter and PQRS is a cyclic quadrilateral. If ∠ PSR = 130°, then the value of ∠ RPQ is
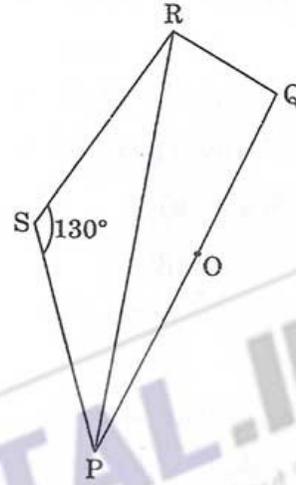
(A) 45°

(B) 35°

(C) 30°

(D) 40°

146. In the given figures, the lengths of the sides of △ ABC and △ PQR are given and they are given in same units. Also ∠ A and ∠ B are given. The value of ∠ P is

(A) 38°

(B) 40°

(C) 42°

(D) 36°

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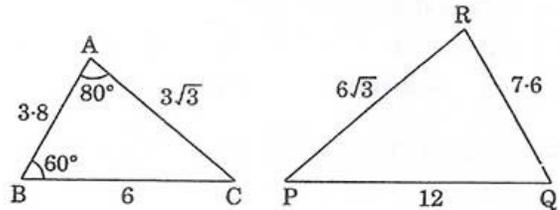
Directions : *Study the following graph and answer the questions no. 147 to 150.*

Crude Oil Imports by India
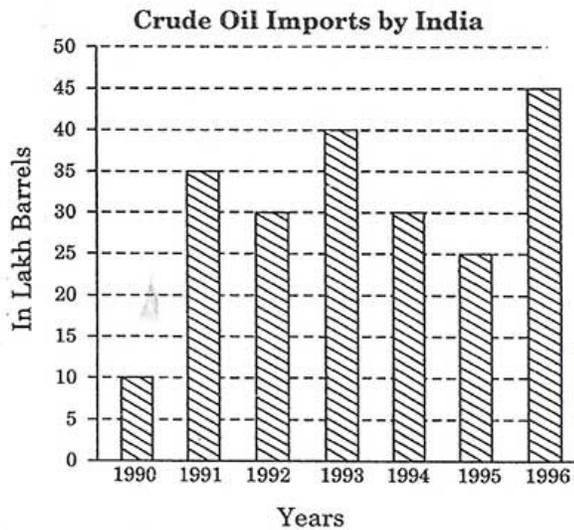
147. In how many years were the imports higher than the average value of imports ?
   (A) 2
   (B) 3
   (C) 4
   (D) 1

148. 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) 64 lakhs
   (B) 6·4 crores
   (C) 8·2 crores
   (D) 64 crores

149. From year 1995 to the year 1996, what was the percentage increase in imports of crude oil ?
   (A) 90
   (B) 60
   (C) 180
   (D) None of these

150. From 1991 to 1992, what was the approximate percentage reduction in import of crude oil ?
   (A) 18
   (B) 8
   (C) 14
   (D) 22

FOR VISUALLY HANDICAPPED / CEREBRAL PALSY CANDIDATES ONLY

144. 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) 14%
   (B) 30%
   (C) 25%
   (D) 26%

145. If $2x = 3 + \dfrac{2}{x}$, then the value of $\dfrac{4x}{x^2 - x - 1}$ is
   (A) 4
   (B) 2
   (C) $\dfrac{8}{5}$
   (D) 8

146. 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) ₹ 390
   (B) ₹ 395
   (C) ₹ 400
   (D) ₹ 385

147. A watch is purchased for ₹ 400 and sold for ₹ 460. The profit percent is
   (A) 15·5%
   (B) 12%
   (C) 13%
   (D) 15%

148. If x = 997, y = 998 and z = 999, then the value of $(x^2 + y^2 + z^2 - xy - yz - zx)$ is
   (A) 1
   (B) − 1
   (C) 3
   (D) 0

149. If $p = 2 + \sqrt{3}$, then the value of $p + \dfrac{1}{p}$ will be
   (A) 4
   (B) 3
   (C) 2
   (D) 8

150. 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) 12 km/hr
   (B) 10 km/hr
   (C) 15 km/hr
   (D) 18 km/hr

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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. This is the boy / who I think had won / the gold medal in the dance competition. / No error.
      (A)   (B)   (C)   (D)

152. The priest emphasised / that it is the duty / of all Christians to love each other. / No error.
      (A)   (B)   (C)   (D)

153. The pond is flooded / with water because it is raining /
      (A)   (B)

    continuously for the last three days. / No error.
         (C)   (D)

154. Scaling the high wall, / a vast expanse of greenery / reaching up to the horizon was seen. / No error.
      (A)   (B)   (C)   (D)

155. Any of the two / roads leads / to the station. / 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. His old clothes and uncombed hair gave him a _____ appearance.
    (A) discontented   (B) disreputable
    (C) disrespectful   (D) disputatious

157. There are, as yet, no vegetation types or ecosystems whose study has been perfected to the extent that they no longer _____ ecologists.
    (A) interest   (B) require
    (C) challenge   (D) hinder

158. The father was angry and cast _____ his son.
    (A) off   (B) of
    (C) down   (D) about

159. Indian masses are _____ law-abiding.
    (A) by far   (B) by any means
    (C) far and away   (D) by and large

160. The film we saw last night was boring. I wish I _____ it.
    (A) didn't see
    (B) wouldn't have seen
    (C) shouldn't have seen
    (D) hadn't seen

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. Obstacle
    (A) Hindrance   (B) Cessation
    (C) Denouement   (D) Progress

162. Mollify
    (A) Assuage   (B) Persuade
    (C) Contradict   (D) Disseminate

163. Audacious
    (A) Boisterous   (B) Daring
    (C) Industrious   (D) Uncaring

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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) Soar   (B) Equate
    (C) Stagnate   (D) Fall

165. Ebullient
    (A) Mindless   (B) Heartless
    (C) Spiritless   (D) Soulless

166. Volatile
    (A) Angry   (B) Favourable
    (C) Fresh   (D) Stable

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. Those intending to take up the military service must be prepared to go through the hoops.
    (A) be made to undergo gruelling tests
    (B) be made to sign bonds
    (C) be made to pay heavy amounts of money
    (D) be punished severely

168. He is playing ducks and drakes with the wealth of his father.
    (A) spending foolishly
    (B) spending carefully
    (C) spending diligently
    (D) spending lavishly

169. The Principal called the latecomers to her room and delivered a curtain lecture on the subject of late hours.
    (A) cautionary talk given in private
    (B) talk behind the curtain
    (C) dramatic lecture
    (D) brief lecture

170. The project to clean the River Ganga ended in smoke.
    (A) yielded no profit
    (B) yielded no plan
    (C) yielded no practical result
    (D) yielded only confusion

171. He immediately set about organizing the department.
    (A) started   (B) took steps towards
    (C) looked around   (D) took charge

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. Nightclubs are open far into night.
    (A) far into the night
    (B) into the night far
    (C) into far night
    (D) No improvement

173. The Field Marshal knew that untrained troops were no good to him, he needed complete veterans.
    (A) defiant   (B) seasoned
    (C) well-maintained   (D) No improvement

174. Once only did she give her way to emotions.
    (A) Only once she did give way to her emotions.
    (B) Only once did she give way to emotions.
    (C) Once only did she give way to her emotions.
    (D) No improvement

175. I don't think Harsh will beat Mohit at chess. Mohit is one too much for him.
    (A) too many one   (B) too much one
    (C) one too many   (D) No improvement

176. Throughout history, both ancient and modern, men were fond of waging war.
    (A) have been   (B) had been
    (C) are   (D) No improvement

177. An early bird catches the worm.
    (A) A early bird   (B) The early bird
    (C) Early bird   (D) No improvement

178. Who can prevent you from getting married now that you are within age ?
    (A) of   (B) in
    (C) on   (D) No improvement

179. Since your departure, nothing has been transpired here worth your notice.
    (A) worthy of note has transpired here.
    (B) worthy of note has been transpired here.
    (C) worth your notice has transpired here.
    (D) No improvement

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180. As the tenant was in deficit with his rent we were forced to give him notice.
   - (A) obligation
   - (B) behind
   - (C) difficulties
   - (D) No improvement

181. The engaged couple fell head over heels in love.
   - (A) on his heels over head in love
   - (B) over head his heels in love
   - (C) in love head over the heels
   - (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 tall, strong woman
   - (A) Harridan
   - (B) Shrew
   - (C) Siren
   - (D) Amazon

183. A difficult problem
   - (A) Conundrum
   - (B) Puzzle
   - (C) Labyrinth
   - (D) Maze

184. The policy of extending a country's empire and influence
   - (A) Capitalism
   - (B) Communism
   - (C) Imperialism
   - (D) Internationalism

185. A person who studies the origin and history of words
   - (A) Grammarian
   - (B) Etymologist
   - (C) Ethnologist
   - (D) Polyglot

186. A book which holds several works of one author
   - (A) Omnibus
   - (B) Bibliotheque
   - (C) Anthology
   - (D) Biography

187. One who deliberately damages other people's property
   - (A) Vandal
   - (B) Vampire
   - (C) Arsonist
   - (D) Destructor

188. A large number of bullets fired at the same time
   - (A) Shoot
   - (B) Archery
   - (C) Fusillade
   - (D) Rattle

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) Baruque
    (B) Barokue
    (C) Baroaque
    (D) Baroque

190. (A) Irresesteble
    (B) Irresistable
    (C) Irrisistable
    (D) Irresistible

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

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180. As the tenant was in <u>deficit</u> with his rent we were forced to give him notice.
- (A) obligation
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- (A) on his heels over head in love
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- (C) Baroaque
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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. The theme being developed by the writer is
    (A) Problems emerging out of materialism
    (B) Drug Addiction
    (C) The Conquest of Happiness
    (D) Pressures of the modern world

192. What leads youth to drugs ?
    (A) Rapid changes in the modern world
    (B) Inability to cope with the demands of the modern world
    (C) Undue competition of the modern world
    (D) A, B and C

193. Which of the following statements is true ?
    (A) There is almost an epidemic of drug use among the youth.
    (B) All youngsters take drugs just to break boredom.
    (C) All youngsters take to drugs because they are mocked at if they do not use drugs.
    (D) Drug addiction is a problem restricted to the youth.

194. The cycle of drug addiction involves
    (A) initiation, peer pressure and addiction
    (B) initiation, relaxation and addiction
    (C) initiation, relaxation and de-addiction
    (D) initiation, rehabilitation and addiction

195. The reason cited by Bertrand Russell for the unhappiness of man is
    (A) Materialistic self-centredness
    (B) Stress to outdo others
    (C) Alienation from society
    (D) Failure in life

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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. How do virus writers gain access to computing resources ?
    (A) By using social engineering
    (B) By affecting computing networks
    (C) By executing malwares
    (D) By employing a variety of mechanisms

197. The vast majority of viruses evade antivirus softwares by
    (A) using complex anti-detection/stealth strategies
    (B) exploiting detailed knowledge of security vulnerabilities
    (C) inserting copies of itself into programs
    (D) targeting Microsoft Windows systems

198. What is one of the motives of creating viruses ?
    (A) To corrupt hard drives
    (B) To exploit security knowledge
    (C) To sabotage and deny service
    (D) To gain access to classified files

199. What is the synonym of 'vulnerability' in the passage ?
    (A) responsibility   (B) accountability
    (C) susceptibility   (D) liability

200. What is the defining characteristic of a computer virus ?
    (A) Its ability to hide itself
    (B) Its ability to self-replicate
    (C) Its ability to execute programs
    (D) Its ability to affect the computer system
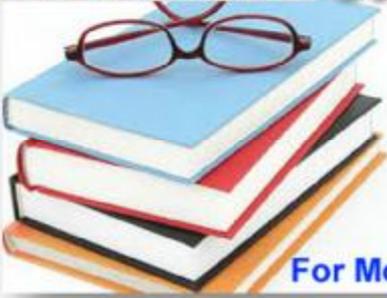
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   http://sscportal.in/community/study-kit/cgl

∨ **Study Kit for SSC Combined Graduate Level Examination (Tier - II)**
   http://sscportal.in/community/study-kit/cgl-tier-2

∨ **Study Kit for Combined Higher Secondary Level (10+2) Examination**
   http://sscportal.in/community/study-kit/chsle

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   http://sscportal.in/community/study-kit/cgl/tier-1-hindi

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