GT

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

1833343

EA 2013

Test Form No.
टेस्ट फॉर्म सं.
623 MP 3

Time Allowed : 2 Hours (For VH Candidates : 2 hrs. 40 min.)
निर्धारित समय : 2 घंटे (दृष्टिबाधित उम्मीदवारों के लिए : 2 घंटे 40 मिनट)

Maximum Marks : 200
अधिकतम अंक : 200

Read the following instructions carefully before you begin to answer the questions. This Booklet contains questions in English as well as in Hindi
प्रश्नों के उत्तर देने से पहले नीचे लिखे अनुदेशों को ध्यान से पढ़ लें । इस पुस्तिका में प्रश्न 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 and 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 candidates will have to ensure that these details are filled in by the scribe. However all VH candidates must put their Left-Hand thumb impression at the space provided in the Answer-Sheet. Those VH candidates who can sign should also put their signatures in addition to thumb impression.)
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, the 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 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 बुद्धिमता 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 पाएँ, 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 ध्यानपूर्वक अपना *नाम, रोल नम्बर, टिकट नम्बर और टेस्ट फॉर्म संख्या* अवश्य लिखें । प्रश्नों के उत्तर वास्तव में शुरू करने से पहले उत्तर-पत्रिका पर निर्धारित स्थान में आप अपने हस्ताक्षर एवं बाएँ हाथ के अंगूठे का निशान भी अवश्य लगाएँ । उपर्युक्त अनुदेशों का पूरी तरह अनुपालन किया जाए अन्यथा आपकी उत्तर-पत्रिका को जाँचा नहीं जाएगा और *'शून्य'* अंक दिया जाएगा । (दृष्टिबाधित उम्मीदवार सुनिश्चित करें कि यह विवरण लिपिक द्वारा भरा जाए । परन्तु सभी दृष्टिबाधित उम्मीदवार उत्तर-पत्रिका में निर्धारित स्थान पर अपने बाएँ हाथ के अंगूठे का निशान अवश्य लगाएँ । जो दृष्टिबाधित उम्मीदवार हस्ताक्षर कर सकते हैं, वे अंगूठे के निशान के अलावा अपने हस्ताक्षर भी करें ।)
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 जाएँगे, 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 दी 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 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 ।"

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

SEAL

PART A : GENERAL INTELLIGENCE AND REASONING

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

1. Vigilant : Alert :: Viable :
   - (A) Useful
   - (B) Simple
   - (C) Feasible
   - (D) Beautiful

2. Amnesia : Memory :: Paralysis :
   - (A) Movement
   - (B) Limbs
   - (C) Handicapped
   - (D) Legs

3. AFKP : BGLQ :: CHMR : ?
   - (A) DFKP
   - (B) DNIS
   - (C) EJOT
   - (D) DINS

4. PREMONITION : MONITIONERP ::
   LINSEEDOIL : ?
   - (A) SEEDOILLIN
   - (B) SEEDOILNIL
   - (C) SEEDOILILN
   - (D) SEEDOILNLI

5. 18 : 162 :: 36 : ?
   - (A) 1296
   - (B) 72
   - (C) 648
   - (D) 984

6. 9536 : 6203 :: 5873 : ?
   - (A) 2343
   - (B) 2353
   - (C) 2531
   - (D) 2540

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

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

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

9. (A) 10
   (B) 68
   (C) 125
   (D) 222

10. (A) 12 – 30
    (B) 51 – 42
    (C) 11 – 20
    (D) 41 – 72

11. (A) DGI
    (B) MPR
    (C) KND
    (D) FIK

12. Number of letters skipped in between adjacent letters in the series increases by one. Which of the following series observes this rule ?
    - (A) WYBFKQX
    - (B) YBQQFHN
    - (C) WZCHJMQ
    - (D) WBKQXYF

13. Arrange the following words in a meaningful order :
    1. Brother
    2. Husband
    3. Father
    4. Son
    5. Son-in-law

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

14. Arrange the following words according to the English dictionary :
    1. Fearsome
    2. Fealty
    3. Feasible
    4. Feature
    5. Feather

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

15. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
    a_c_baab_cb_
    - (A) abab
    - (B) aabb
    - (C) bcca
    - (D) abbc

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. ADGJ, YVSP, KNQT, ?

    (A) QTWZ   (B) OLIF

    (C) LORU   (D) SVZB

17. 5, 11, 21, 43, 85, ?

    (A) 170   (B) 171

    (C) 181   (D) 185

18. 12, 27, 85, 345, ?

    (A) 1380   (B) 1725

    (C) 1731   (D) 1737

19. Mrs. Lata was 3 times as old as her son 8 years ago. Their total age is 64 years now. How old (in years) is Mrs. Lata now ?

    (A) 12   (B) 36

    (C) 44   (D) 48

20. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to the man in the photograph ?

    (A) Mother   (B) Aunt

    (C) Sister   (D) Daughter

21. Madhavi and Shalini are good in Dramatics and Computer Science. Anjana and Madhavi are good in Computer Science and Physics. Anjana, Purnima and Nirmala are good in Physics and History. Nirmala and Anjana are good in Physics and Maths. Purnima and Shalini are good in History and Dramatics.

    Who is good in Physics, Dramatics and Computer Science ?

    (A) Madhavi   (B) Shalini

    (C) Anjana   (D) Nirmala

22. From the given alternatives, select the word which can be formed using the letters of the given word.

    EXAMINATION

    (A) ANIMAL   (B) EXAMINER

    (C) NATIONAL   (D) ANIMATION

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

    INQUISITIVENESS

    (A) QUIETNESS   (B) INVENTIVE

    (C) QUININE   (D) QUITS

24. If the letters of the English alphabet are serially numbered, one of the answers given below has a meaningful word hidden in it. Identify the answer.

    (A) 1, 12, 7, 5, 2, 18, 1

    (B) 1, 7, 5, 12, 18, 1

    (C) 4, 21, 7, 18, 13, 1

    (D) 13, 8, 9, 17, 14, 22

25. If "SEQUENCE" is coded as "HVJFVMXV", then how will "CHILDREN" be coded in the same code ?

    (A) XSRMWIVM   (B) XSROWIVM

    (C) DSROWIUN   (D) MVIWORSX

26. If "GIVE" is coded as "5137" and "BAT" is coded as "924", how will "GATE" be coded in the same code ?

    (A) 5427   (B) 5724

    (C) 5247   (D) 2547

27. Following words are written in a code language. Study them carefully and find out the word in the given code.

    CAR   – φαδ

    SIT   – ηψκ

    WELL – σiyy

    MAP – μαβ

    Given code : yαμβ

    (A) LAME   (B) LAMA

    (C) LAMB   (D) LAMP

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

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

29. If '+' means '−'; '−' means '×'; '×' means '÷' and '÷' means '+', then

   $25 × 5 ÷ 30 + 8 − 2 = ?$

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

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

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

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

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

   $13 * 12 * 5 * 4$

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

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

32.
15	225	30
7	70	20
3	?	8

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

33.
4	7	9
8	6	8
3	7	9
35	49	?

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

34.
7	6	8
5	4	9
3	2	1
83	56	?

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

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

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

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

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

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

37. Statements :
   All women are cats.
   All cats are rats.

   Conclusions :
   I.   All women are rats.
   II. All rats are women.

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

38. **Statement :**

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

Assumptions :

I. Education influences an individual's values.

II. An uneducated person will not have values.

(A) Only assumption I is implicit

(B) Only assumption II is implicit

(C) Both assumptions I and II are implicit

(D) Neither assumption I nor II is implicit

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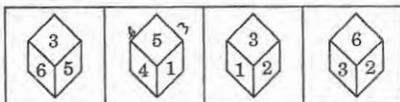
Question figure :

Answer figures :

(A) (B) (C) (D)
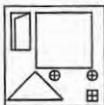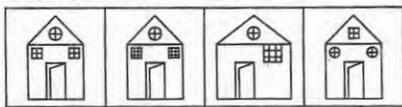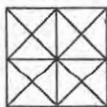
40. Four positions of a dice are given below. Identify the number at the bottom when the number on the top is 2.

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

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

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

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

42. School, Women, Children
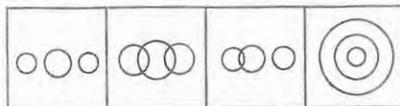
(A) (B) (C) (D)

43. Teacher, Writer, Musician
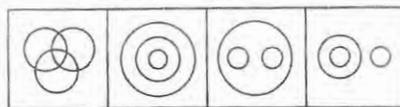
(A) (B) (C) (D)

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

Which number represents those Doctors who are Players as well as Artists ?
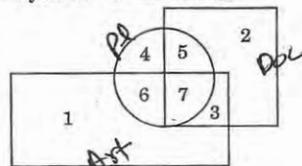
(A) 2
(B) 3
(C) 6
(D) 7

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

45. *Question figure :*

Answer figures :

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

46. Question figure :

Answer figures :

(A)   (B)   (C)   (D)
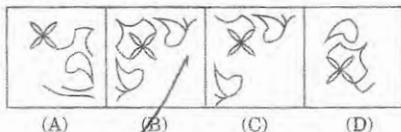
47. From the given answer figures, select the one in which the question figure is hidden/embedded.

Question figure :

Answer figures :

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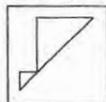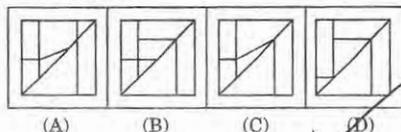
48. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.
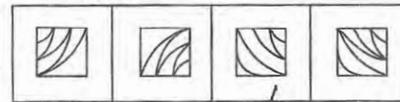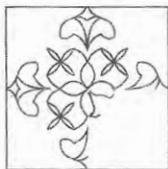
Question figures :

Answer figures :

(A)   (B)   (C)   (D)
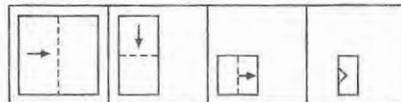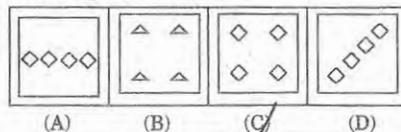
49. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the question figure ?

Question figure :

Answer figures :

(A)   (B)   (C)   (D)
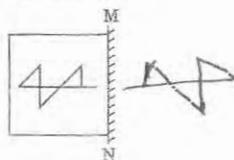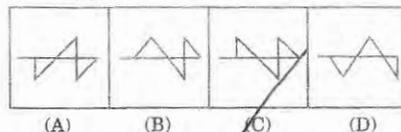
50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'K' can be represented by 00, 24, 32, etc. and L can be represented by 57, 68, 89, etc. Similarly, you have to identify the set for the given word :

MUTE

Matrix I

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

Matrix II

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

(A) 88, 21, 03, 76

(B) 66, 03, 20, 95

(C) 99, 20, 13, 95

(D) 66, 30, 02, 68

FOR VISUALLY HANDICAPPED CANDIDATES ONLY

39. Select the related number pair from the given alternatives.

    4 : 20 : : ?

    (A) 6 : 42   (B) 9 : 29

    (C) 10 : 120   (D) 5 : 36

40. Select the one which is different from the other three responses.

    (A) Inn   (B) Club

    (C) Hostel   (D) Hotel

41. Identify the wrong term in the given series :

    3, 7, 23, 87, 443, 1367

    (A) 443   (B) 87

    (C) 1367   (D) 23

42. From among the given alternatives, select the one in which the set of numbers is most like the given set of numbers.

    Given set : (48, 24, 12)

    (A) (44, 22, 10)   (B) (46, 22, 11)

    (C) (40, 20, 10)   (D) (40, 30, 20)

43. If B = 2, ACCUMULATE = 100, then IMMEDIATELY = ?

    (A) 122   (B) 125

    (C) 120   (D) 116

44. Six friends A, B, C, D, E and F are sitting in a circle. C is to the left to D; F is between A and E; E is between F and D. Between whom is B sitting ?

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

    (C) D and E   (D) F and A

45. Which of the following will appear fourth as per order in the English dictionary ?

    (A) powerful   (B) powerplant

    (C) powerhouse   (D) powerless

46. In the following series of numbers, how many 3's are immediately preceded by 9 but not immediately followed by 5 ?

    93459359364393353953 9375759395

    (A) 4   (B) 3

    (C) 5   (D) 6

47. In a group of five persons A, B, C, D and E, one plays Tennis, one plays Chess and one Hockey. A and D are unmarried women and play no game. There is a couple among them where E is the husband of C. No woman plays either Chess or Hockey. B is the brother of C and he neither plays Tennis nor Chess. Who plays Hockey here ?

    (A) E   (B) C

    (C) B   (D) A

48. The average age of 7 employees of a department is 49 years. One member of 50 years seeks voluntary retirement and a new employee of 36 years joins. What is the average age of the employees of the department now ?

    (A) 45 years   (B) 47 years

    (C) 48 years   (D) 52 years

49. An overhead tank filled with 20 litre capacity has 3 pipe connections A, B and C which are leaking at a rate of 150 ml, 220 ml and 300 ml per hour respectively. What will be the remaining capacity of water at the end of 8 hours ?

    (A) 5 litres 360 ml

    (B) 650 ml

    (C) 14 litres 640 ml

    (D) 8 litres 640 ml

50. A class of girls stand in a single line. Geeta is twenty-third in order from both the ends. How many girls are there in the class ?

    (A) 44   (B) 45

    (C) 46   (D) 43

PART B : GENERAL AWARENESS

51. The number of firms in monopoly is
    (A) One   (B) Two
    (C) Three   (D) Four

52. FDI limit in Indian Private Sector Banks was (as on 1st January, 2007)
    (A) 26%   (B) 51%
    (C) 74%   (D) 86%

53. Non-material goods are
    (A) Capital   (B) Services
    (C) Labour   (D) Organisation

54. When saving exceeds investment, the income flow
    (A) rises
    (B) declines
    (C) remains same
    (D) becomes negative

55. Development means Economic growth plus
    (A) Price stability   (B) Social change
    (C) Inflation   (D) Deflation

56. The Constitution of India is
    (A) one of the bulkest constitutions
    (B) one of the briefest constitutions
    (C) a medium sized constitution
    (D) an evolved constitution

57. The surrender of titles and honorary offices was a principle for which one of the following movements ?
    (A) Quit India Movement
    (B) Non Cooperation Movement
    (C) Khilafat Movement
    (D) Bhakti Movement

58. Sovereignty is an essential element of
    (A) Nation
    (B) State
    (C) Association
    (D) Independent nation

59. Under the new electoral reforms, voter's identity cards were suggested by
    (A) R.V.S. Peri Sastri
    (B) T.N. Seshan
    (C) R.K. Trivedi
    (D) S.L. Shakdhar

60. The main purpose for the grant of Fundamental Rights to the Indian citizens is
    (A) establishment of democratic government
    (B) to ensure independence of judiciary
    (C) protection of individual liberty
    (D) to establish socialist society

61. The British East India Company's first 'Presidency' in India was
    (A) Madras   (B) Surat
    (C) Hughli   (D) Masulipatnam

62. Who among the following started the general use of stone for monuments ?
    (A) Chandragupta Maurya
    (B) Bimbisara
    (C) Bindusara
    (D) Asoka

63. Who established the Chisti order in India ?
    (A) Nizam-ud-din Auliya
    (B) Salim Chisti
    (C) Shaikh Muin-ud-din Chisti
    (D) Hamid-ud-din Nagauri

64. Upasikas were
    (A) monks and nuns of Jainism
    (B) monks and nuns of Buddhism
    (C) lay-members of Buddhism
    (D) lay-members of Jainism

65. Who founded the Ramakrishna Mission (1896)?
    (A) Ramakrishna Paramahansa
    (B) Narendra Nath Datta (Swami Vivekananda)
    (C) Gopal Krishna Gokhale
    (D) Ishwar Chandra Vidyasagar

66. The natural disaster of 'Drought' is taken care of by
    (A) Ministry of Agriculture
    (B) Ministry of Home Affairs
    (C) Ministry of Civil Aviation
    (D) Ministry of Health and Family Welfare

67. The study "Science of Small" is known as
    (A) Molecular Biology
    (B) Microbiology
    (C) Nanotechnology
    (D) Cosmology

68. The major impact of globalisation on Indian agriculture is the development of
    (A) Biotechnology
    (B) Fertilizer technology
    (C) Pesticide technology
    (D) Machine technology

69. The Information Technology capital of India is
    (A) Bangalore   (B) Cochin
    (C) Mumbai   (D) Coimbatore

70. In India, the most important source of energy is
    (A) Petroleum
    (B) Coal
    (C) Nuclear power
    (D) Hydroelectric power

71. A fertilized egg is known as
    (A) Zoospore
    (B) Zygote
    (C) Oospore
    (D) Conidiospore

72. Who isolated the virus causing mosaic disease in tobacco in the form of crystals?
    (A) Louis Pasteur   (B) Robert Koch
    (C) Dr. Stanley   (D) Mayer

73. The book which contains information on rare plants is called as
    (A) Blue book   (B) Red book
    (C) Green book   (D) Yellow book

74. Statements:
    1. In Gymnosperms, seeds are enclosed in fruits.
    2. Dicots and monocots are included under Angiosperms.
    (A) Statement 1 is correct, but Statement 2 is incorrect.
    (B) Statement 1 is incorrect, but Statement 2 is correct.
    (C) Both Statements 1 and 2 are correct.
    (D) Both Statements 1 and 2 are incorrect.

75. The inflorescence of wheat is
    (A) Spike   (B) Panicle
    (C) Raceme   (D) Catkin

76. Agar-agar is prepared from
    (A) Fungi   (B) Bryophyte
    (C) Algae   (D) Lichens

77. On which of the following principles does a rocket work ?

(A) Conservation of Mass

(B) Conservation of Energy

(C) Conservation of Momentum

(D) Conservation of Inertia

78. An intrinsic semiconductor at absolute zero temperature is a

(A) good conductor (B) perfect insulator

(C) superconductor (D) None of the above

79. The value of g on the Earth's surface changes due to

(A) rotation of the Earth only

(B) shape of the Earth only

(C) both rotation and shape of the Earth

(D) None of the above

80. The scanning of uterus in determining the sex of the child is preferred more with ultrasonic waves rather than with X-rays. It is because

(A) X-rays cannot give as clear a picture as that of ultrasonic waves

(B) X-ray scanning is more expensive than ultrasonic scanning

(C) X-rays are more harmful than the ultrasonic waves

(D) None of the above

81. "MIPS" is a measure of the speed of

(A) Floppy Disk   (B) Hard Disk

(C) CPU   (D) Printer

82. What is the role of a primary key ?

(A) Password to open a database table

(B) A key that uniquely identifies a table

(C) A key that uniquely identifies a row

(D) None of the above

83. When chlorine is added to ethylene we get

(A) Ethyl chloride

(B) Ethylene chloride

(C) Ethylidene chloride

(D) Ethylene chlorohydrin

84. Aqua Regia contains

(A) 3 parts of conc. HCl + 1 part of conc. H_2SO_4

(B) 3 parts of conc. H_2SO_4 + 1 part of conc. HNO_3

(C) 3 parts of conc. HCl + 1 part of conc. HNO_3

(D) None of these

85. In the ordinary fire extinguisher, carbon dioxide is generated by the reaction of

(A) Limestone and dilute H_2SO_4

(B) Marble powder and dilute HCl

(C) Sodium carbonate and dilute HCl

(D) Sodium bicarbonate and dilute H_2SO_4

86. Starch is an example of

(A) Monosaccharide

(B) Disaccharide

(C) Polysaccharide

(D) Oligosaccharide

87. The Green Embassy Award-2012 in India was bagged by the Embassy of

(A) U.S.A.

(B) Sweden

(C) U.K.

(D) Japan

88. The major pesticidal properties are present in the seed of

(A) Neem   (B) Lotus

(C) Mango   (D) Drumstick

89. Which of the following is most injurious to the growing population of India ?

    (A) Ganja
    (B) Tobacco
    (C) Opium
    (D) Datura

90. A greenhouse gas "PFTBA" (Perfluorotributylamine), more harmful than CO_2, was recently reported by the scientists of

    (A) University of Chicago
    (B) University of Toronto
    (C) University of the West Indies
    (D) NASA

91. The chronological order of Lok Sabha General Elections 2014 was

    (A) 14th
    (B) 15th
    (C) 16th
    (D) 17th

92. Who among the following actresses is the tallest in height ?

    (A) Huma Qureshi
    (B) Katrina Kaif
    (C) Deepika Padukone
    (D) Preity Zinta

93. Valentine's Day is celebrated in the month of

    (A) January
    (B) February
    (C) March
    (D) April

94. Ants can lift weight up to how many times their body weight ?

    (A) 5 times
    (B) 50 times
    (C) 500 times
    (D) 5000 times

95. Which of the following is *not* correct ?

    (A) BSF – British Security Force
    (B) ASI – Archaeological Survey of India
    (C) NMA – National Monuments Authority
    (D) SIT – Special Investigation Team

96. The 'Arjuna' and the 'Dronacharya' awards are associated with the field of

    (A) Sports and Games
    (B) Art and Culture
    (C) Music and Dance
    (D) Literature

97. Chief producer(s) of Jute in the world is

    (A) India
    (B) Bangladesh
    (C) India and Bangladesh
    (D) Scotland

98. Who is the author of "The Wonder That Was India" ?

    (A) B.K. Thapar
    (B) R.S. Sharma
    (C) D.D. Kosambi
    (D) A.L. Basham

99. Identify the Buddhist Goddess.

    (A) Manjushri
    (B) Tara
    (C) Sanghamitra
    (D) Gotami

100. Which of the following oils is gaining popularity as a cooking option in India ?

    (A) Pongamia
    (B) Peanut
    (C) Olive
    (D) Coconut

PART C : QUANTITATIVE APTITUDE

101. $4^{61} + 4^{62} + 4^{63} + 4^{64}$ is divisible by

   (A) 3   (B) 11

   (C) 13   (D) 17

102. The least number which must be added to the greatest number of 4 digits in order that the sum may be exactly divisible by 307 is

   (A) 32   (B) 43

   (C) 75   (D) 232

103. A cistern is provided with two pipes A and B. A can fill it in 20 minutes and B can empty it in 30 minutes. If A and B be kept open alternately for one minute each, how soon will the cistern be filled ?

   (A) 110 minutes   (B) 115 minutes

   (C) 120 minutes   (D) 121 minutes

104. If 40 men or 60 women or 80 children can do a piece of work in 6 months, then 10 men, 10 women and 10 children together do half of the work in

   (A) 6 months   (B) $5\frac{7}{13}$ months

   (C) $11\frac{1}{13}$ months   (D) $5\frac{6}{13}$ months

105. If a machine consumes $\frac{k}{5}$ kilowatts of power every t hours, how much power in kilowatts, will three such machines consume in 10 hours ?

   (A) $\frac{6t}{k}$ (B) $\frac{6k}{t}$

   (C) $\frac{t}{k}$ (D) $\frac{k}{t}$

106. Three cubes of sides 6 cm, 8 cm and 1 cm are melted to form a new cube. The surface area of the new cube is

   (A) 496 cm^2 (B) 586 cm^2

   (C) 658 cm^2 (D) 486 cm^2

107. The radius of the base and the height of a right circular cone are doubled. The volume of the cone will be

   (A) three times of the previous volume

   (B) $3\sqrt{2}$ times of the previous volume

   (C) 6 times of the previous volume

   (D) 8 times of the previous volume

108. The ratio of weights of two spheres of different materials is 8 : 17 and the ratio of weights per 1 cc of materials of each is 289 : 64. The ratio of radii of the two spheres is

   (A) 4 : 17   (B) 17 : 4

   (C) 17 : 8   (D) 8 : 17

109. A shopkeeper buys an article for ₹ 360. He wants to make a gain of 25% on it after a discount of 10%. The marked price is

   (A) ₹ 450   (B) ₹ 500

   (C) ₹ 460   (D) ₹ 486

110. A is to pay B, ₹ 600 in 4 years time. A offers to pay up B at present. What discount should B allow A ?

   (A) ₹ 100   (B) ₹ 120

   (C) ₹ 110   (D) ₹ 96

111. A shopkeeper sold an item for ₹ 1,510 after giving a discount of $24\frac{1}{2}\%$ and thereby incurred a loss of 10%. Had he sold the item without discount, his net profit would have been

   (A) ₹ $322\frac{1}{9}$ (B) ₹ $422\frac{2}{9}$

   (C) ₹ $322\frac{2}{9}$ (D) ₹ 641

112. ₹ 3,000 is divided between A, B and C, so that A receives $\frac{1}{3}$ as much as B and C together receive and B receives $\frac{2}{3}$ as much as A and C together receive. Then share of C is

   (A) ₹ 525   (B) ₹ 1,625

   (C) ₹ 1,050   (D) ₹ 600

SPACE FOR ROUGH WORK / रफ़ कार्य के लिए स्थान

113. The ratio of the number of boys and girls in a school is 2 : 3. If 25% of the boys and 30% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is

    (A) 36   (B) 54

    (C) 60   (D) 72

114. The mean of 20 items is 55. If two items 45 and 30 are removed, the new mean of the remaining items is

    (A) 65·3   (B) 56·9

    (C) 56   (D) 65·1

115. The average age of a cricket team of 11 players is the same as it was 3 years back because 3 of the players whose current average age is 33 years were replaced by 3 youngsters. The average age of the newcomers is

    (A) 21 years   (B) 22 years

    (C) 20 years   (D) 23 years

116. If there is a profit of 20% on the cost price, then the percentage of profit on the sale price is

    (A) 12%   (B) $15\frac{1}{3}\%$

    (C) 16%   (D) $16\frac{2}{3}\%$

117. 25% of 120 + 40% of 380 = ? of 637

    (A) $\frac{1}{7}$ (B) $\frac{4}{7}$

    (C) $\frac{3}{7}$ (D) $\frac{2}{7}$

118. A thief steals a car at 1.30 p.m. and drives it off at 40 km/hr. The theft is discovered at 2 p.m. and the owner sets off in another car at 50 km/hr. He will overtake the thief at

    (A) 4 p.m.   (B) 4.30 p.m.

    (C) 6 p.m.   (D) 5 p.m.

119. I walk a certain distance and ride back taking a total time of 37 minutes. I could walk both ways in 55 minutes. How long would it take me to ride both ways ?

    (A) 19 minutes   (B) 37 minutes

    (C) 20 minutes   (D) 30 minutes

120. The compound interest on a certain sum of money at a certain rate per annum for two years is ₹ 2,050, and the simple interest on the same amount of money at the same rate for 3 years is ₹ 3,000. Then the sum of money is

    (A) ₹ 18,000   (B) ₹ 21,000

    (C) ₹ 25,000   (D) ₹ 20,000

121. If $ab + bc + ca = 0$, then the value of $\frac{1}{a^2 - bc} + \frac{1}{b^2 - ac} + \frac{1}{c^2 - ab}$ is

    (A) -1 (B) 0

    (C) 1   (D) 2

122. If the equation $2x^2 - 7x + 12 = 0$ has two roots α and β, then the value of $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$ is

    (A) $\frac{1}{24}$ (B) $\frac{7}{24}$

    (C) $\frac{97}{24}$ (D) $\frac{7}{2}$

123. Find the value of x for which the expression $2 - 3x - 4x^2$ has the greatest value.

    (A) $\frac{3}{8}$ (B) $-\frac{3}{8}$

    (C) $\frac{41}{16}$ (D) $-\frac{41}{16}$

124. The expression $x^4 - 2x^2 + k$ will be a perfect square if the value of k is

    (A) 0   (B) $\frac{1}{4}$

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

125. If $(x - 1)$ and $(x + 3)$ are the factors of $x^2 + k_1 x + k_2$ then

    (A) $k_1 = 2, \ k_2 = -3$ (B) $k_1 = 2, \ k_2 = 3$

    (C) $k_1 = -2, \ k_2 = 3$ (D) $k_1 = -2, \ k_2 = -3$

126. If $\dfrac{5x}{2x^2 + 5x + 1} = \dfrac{1}{3}$, then the value of $\left(x + \dfrac{1}{2x}\right)$ is

(A) 10   (B) 20

(C) 5   (D) 15

127. If $x^3 + \dfrac{3}{x} = 4(a^3 + b^3)$ and

$3x + \dfrac{1}{x^3} = 4(a^3 - b^3)$, then $a^2 - b^2$ is equal to

(A) 0   (B) 1

(C) 2   (D) 4

128. If $x = 6 + \dfrac{1}{x}$, then the value of $x^4 + \dfrac{1}{x^4}$ is

(A) 1442   (B) 1444

(C) 1446   (D) 1448

129. If AD is the median of the triangle ABC and G be the centroid, then the ratio of AG : AD is

(A) 2 : 1   (B) 3 : 2

(C) 2 : 3   (D) 1 : 3

130. In a $\triangle$ PQR, $\angle$ RPQ = 90°, $\overline{PR}$ = 6 cm and $\overline{PQ}$ = 8 cm, then the radius of the circumcircle of $\triangle$ PQR is

(A) 3 cm   (B) 4 cm

(C) 4·5 cm   (D) 5 cm

131. Two supplementary angles are in the ratio 2 : 3. The angles are

(A) 66°, 114°   (B) 72°, 108°

(C) 36°, 54°   (D) 33°, 57°

132. In a triangle ABC, median is AD and centroid is O. AO = 10 cm. The length of OD (in cm) is

(A) 4   (B) 5

(C) 3·3   (D) 6

133. ABCD is a parallelogram. P, Q are the mid-points of sides BC and CD respectively. If the area of $\triangle$ ABC is 12 cm^2, then the area of $\triangle$ APQ is

(A) 8 cm^2 (B) 9 cm^2

(C) 10 cm^2 (D) 12 cm^2

134. In a $\triangle$ ABC, AB = BC, $\angle$ B = x° and $\angle$ A = (2x − 20)°. Then $\angle$ B is

(A) 30°   (B) 40°

(C) 44°   (D) 54°

135. ABC is an isosceles triangle and $\overline{AB} = \overline{AC}$ and D is a point on $\overline{AC}$ so that $\overline{BD} = \overline{DC}$. If $\angle$ ABD = $\angle$ CBD, then the measure of $\angle$ BAC is

(A) 18°   (B) 36°

(C) 72°   (D) 54°

136. Three circles of radii 3·5 cm, 4·5 cm, 5·5 cm touch each other externally. Then the perimeter of the triangle formed by joining the centres of the circles, in cm, is

(A) $\pi[(3·5)^2 + (4·5)^2 + (5·5)^2]$

(B) 27π

(C) 13·5

(D) 27

137. If $\sec\theta + \tan\theta = 5$, then the value of $\dfrac{\tan\theta + 1}{\tan\theta - 1}$ is

(A) $\dfrac{13}{7}$ (B) $\dfrac{15}{7}$

(C) $\dfrac{17}{7}$ (D) $\dfrac{11}{7}$

138. If $\tan^2\theta = 1 - e^2$, then the value of $\sec\theta + \tan^3\theta \csc\theta$ is

(A) $(2 - e^2)^{1/2}$ (B) $(2 + e^2)^{1/2}$

(C) $(2 - e^2)^{3/2}$ (D) $(2 + e^2)^{3/2}$

139. Which one of the following is true for $0° < \theta < 90°$?

(A) $\cos\theta > \cos^2\theta$ (B) $\cos\theta < \cos^2\theta$

(C) $\cos\theta \geq \cos^2\theta$ (D) $\cos\theta \leq \cos^2\theta$

140. If

$x \sin 60° \tan 30° - \tan^2 45° = \csc 60° \cot 30° - \sec^2 45°$,

then x =

(A) −2   (B) 6

(C) −4   (D) 2

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

(A) $\dfrac{a^2 - b^2}{a^2 + b^2}$ 　　　(B) $\dfrac{a^2 - 1}{a^2 - b^2}$

(C) $\dfrac{a^2 - 1}{a^2 + b^2}$ 　　　(D) $\dfrac{a^2 + 1}{a^2 - b^2}$

142. The value of

$$\frac{\cos^2 60° + 4\sec^2 30° - \tan^2 45°}{\sin^2 30° + \cos^2 30°}$$ is
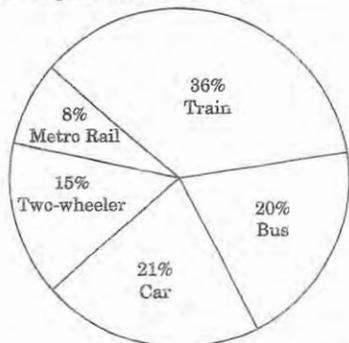
(A) $\dfrac{65}{12}$ 　　　(B) $\dfrac{67}{12}$

(C) $\dfrac{67}{10}$ 　　　(D) $\dfrac{64}{\sqrt{3}}$

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

(A) 0 　　　(B) 1

(C) -1 　　　(D) 2

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

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

(A) 132 　　　(B) 112

(C) 122 　　　(D) 142

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

(A) 304 　　　(B) 214

(C) 294 　　　(D) 394

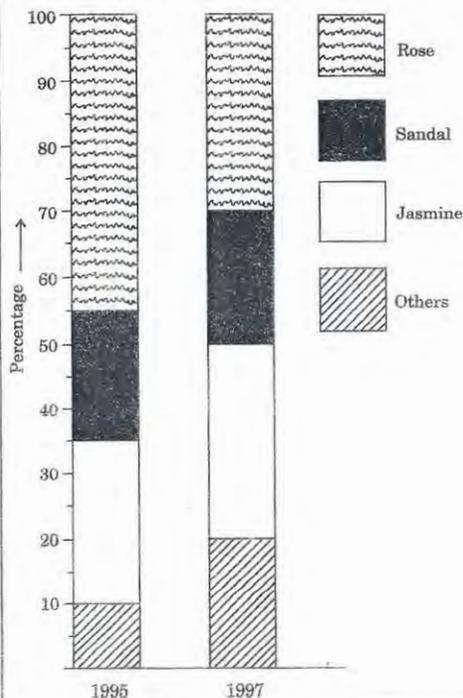146. The ratio of two-wheelers and cars being used as modes of transport is

(A) 7 : 5 　　　(B) 5 : 7

(C) 3 : 5 　　　(D) 4 : 7

147. Write down the difference :
(officers availing train − officers availing car)

(A) 462 　　　(B) 562

(C) 452 　　　(D) 210

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

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

(A) 2500   (B) 2000

(C) 1500   (D) 1200

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

(A) 3 : 2   (B) 2 : 3

(C) 5 : 4   (D) 4 : 3

150. What is the percentage of production of sandal perfume during the year 1995 over that during 1997 ?

(A) 1%   (B) 0%

(C) 50%   (D) 100%

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

(A) 12   (B) 13

(C) 11   (D) 14

145. Vinaya's marks in 5 subjects — English, Maths, Science, Social Studies and Hindi are 80, 95, 75, 90 and 82 respectively. If the weightage of the subjects taken in order are 2, 3, 1, 1, 2, then her weighed average marks of all subjects is

(A) 78   (B) 80

(C) 83   (D) 86

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

(A) ₹ 2,800   (B) ₹ 3,000

(C) ₹ 4,000   (D) ₹ 4,500

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

(A) 18 cm   (B) 23 cm

(C) 21 cm   (D) 42 cm

148. In a box, some one-rupee coins, 50 p coins and 25 p coins make ₹ 225 and the ratio of their numbers is 8 : 5 : 3 respectively. The number of one-rupee coins is

(A) 80   (B) 112

(C) 160   (D) 172

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

(A) 3788   (B) 1768

(C) 2788   (D) 4328

150. There would be 10% loss if rice is sold at ₹ 5·40 per kg. At what price per kg should it be sold to earn a profit of 20% ?

(A) ₹ 6   (B) ₹ 7·20

(C) ₹ 8·50   (D) ₹ 9

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. My best friend / and advisor have / made this suggestion. / No error.
    (A)   (B)   (C)   (D)

152. The guidance / as well as the love of a mother / was wanting. / No error.
    (A)   (B)   (C)   (D)

153. The accident happen / partly because they were having / an argument in the car. / No error.
    (A)   (B)   (C)   (D)

154. All day / I was putting on / a sweater. / No error.
    (A)   (B)   (C)   (D)

155. It is the duty of all citizen to do his utmost / to defend the hard-won / freedom of the country. /
    (A)   (B)   (C)

    No error.
    (D)

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

156. Judging by what he tells me, I don't think he has made a good impression _____ the manager of the company where he works.
    (A) to   (B) for
    (C) on   (D) at

157. Everyone was astonished _____ the referee's decision.
    (A) by   (B) at
    (C) on   (D) with

158. Of all the friends I have had, he is the most helpful and _____ arrogant.
    (A) less   (B) the least
    (C) more   (D) most

159. Anjali's performance in the drama was _____ than Deepali's but not as good as Vaishali's.
    (A) better   (B) best
    (C) good   (D) excellent

160. Neither the famine _____ the subsequent fire was able to destroy the spirit of the people.
    (A) nor   (B) or
    (C) and   (D) with

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. Morose
    (A) gloomy   (B) irritated
    (C) angry   (D) annoyed

162. Capable
    (A) competent   (B) intelligent
    (C) adept   (D) smart

163. Aberration
    (A) rationality   (B) justification
    (C) intensification (D) deviation

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. Many
    (A) one   (B) scarce
    (C) few   (D) some

165. Callous
    (A) compassionate (B) gentle
    (C) honest   (D) frank

166. Best
    (A) worst   (B) excellent
    (C) bad   (D) cheap

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. During the meeting, he was asked to suggest ideas but he could not think of one off the top of his head.
   (A) because his creativity was blocked
   (B) because he was thinking too many things at the same time
   (C) without proper thought and investigation
   (D) spontaneously at that moment

168. Do not give way to their unjust demands.
   (A) yield   (B) declare
   (C) enter   (D) protest

169. To be in two minds
   (A) to be dominated by someone else
   (B) to be uncertain
   (C) to work on somebody else's advice
   (D) to be in a critical state

170. I don't believe a word he says. He's full of hot air.
   (A) a pompous man   (B) a liar
   (C) a fool   (D) a rogue

171. The new semester system introduced by the university is likely to run into rough weather.
   (A) encounter difficulties
   (B) fail
   (C) meet a storm
   (D) confuse one and all

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

172. We had to call out our picnic because of the rain.
   (A) call off   (B) call in
   (C) call up   (D) No improvement

173. Priya presented her undefensible arguments before the committee.
   (A) unthinkable   (B) indefensible
   (C) untenable   (D) No improvement

174. Which part of the country do you come from ?
   (A) hale   (B) hail
   (C) heal   (D) No improvement

175. The sale of arms is illegal and will be punished by law.
   (A) punishable by law
   (B) punishable through law
   (C) punishable in law
   (D) No improvement

176. Prem Das was known to be openly honest in all his dealings.
   (A) transparent   (B) clearly
   (C) transparently   (D) No improvement

177. We look forward to see you in our midst.
   (A) to have seen   (B) of seeing
   (C) to seeing   (D) No improvement

178. My sister works as a teacher in a municipal school.
   (A) taught in   (B) teaches in
   (C) works in   (D) No improvement

179. Harriett ought to be at home by now.
   (A) were ought to be home by now
   (B) was to have been at home by now
   (C) is to have been home by now
   (D) No improvement

180. He is amazingly cheerful considering all he have had to go through.
   (A) all he has had to go through
   (B) all he had go through
   (C) all he go through
   (D) No improvement

181. The school boy had to explain the reason that he was late.
   (A) about why   (B) on why
   (C) why   (D) No improvement

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Directions : In questions no. 182 to 188, out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate oval (⬤) in the Answer Sheet.

182. One who does not believe in God

    (A) theist   (B) monotheist

    (C) polytheist   (D) atheist

183. There was a peaceful settlement of the matter between the two parties.

    (A) compromise   (B) understanding

    (C) friendship   (D) solidarity

184. O. Henry is the pen name used by William Sydney Porter.

    (A) acronym   (B) pseudonym

    (C) synonym   (D) antonym

185. A person who collects postage stamps

    (A) philatelist   (B) phrenologist

    (C) philologist   (D) phonologist

186. A person who has had one or more limbs cut off

    (A) dissemination (B) curtailment

    (C) amputee   (D) truncation

187. Deeply worried or agitated

    (A) shocked   (B) maniac

    (C) ignorant   (D) distraught

188. Persons working together in the same institution

    (A) contemporary (B) brethren

    (C) colleagues   (D) staff

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) Filataly   (B) Fillataly

    (C) Philately   (D) Philataly

190. (A) Mondane   (B) Mundain

    (C) Mundane   (D) Mondiane

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

Passage I (Q. Nos. 191 to 195)

Global warming is a very serious issue that is concerning every rational being on earth. Changes in rainfall and plant distribution as a result of global warming affect the migratory routes, feeding behaviour and mating habits of many birds. The rise in temperature might also lead to a change in ocean currents which might change their direction. The result will be the disruption of the entire marine ecosystem. Due to the warming of the Arctic region, huge amount of methane which is now frozen under the ocean shall escape into the air with the continuous melting of the region. This will cause a vicious cycle as methane is a green house gas that traps heat in the atmosphere and the added emissions might increase the warming process. The damage done can only be negated now by making every individual environment conscious. This might help in making us hope to gift a green earth to our future generation which now appears to face the threat of extinction.

191. What is a very serious issue according to the author ?

    (A) Global warming

    (B) Changes in rainfall

    (C) Feeding behaviour

    (D) Changes in rainfall and feeding behaviour

192. What is the antonym of 'rational' ?

    (A) stupid

    (B) foolish

    (C) unrational

    (D) irrational

193. What might lead to a change in ocean currents ?
    (A) Disruption of marine ecosystem
    (B) Rise in temperature
    (C) Disruption of marine ecosystem and rise in temperature
    (D) Regulation of temperature

194. According to the author,
    (A) melting of the Arctic region will preserve methane
    (B) melting of the Arctic region was long foreseen
    (C) warming of the Arctic region will release methane into the atmosphere
    (D) warming of the Arctic region will preserve methane

195. What appears to face a threat of extinction today ?
    (A) The migratory birds
    (B) The green house gases
    (C) Marine ecosystem
    (D) Our green earth

Passage II (Q. Nos. 196 to 200)

Fleas are perfectly designed by nature to feast on anything containing blood. Like a shark in the water, fleas are ideally equipped to do what they do, making them very difficult to defeat. The body of a flea is covered by a tough, tile-like plate called Sclerite, therefore making it impossible to squish it. Its body is also waterproof and shock resistant thus making it highly resistant to sprays and chemicals. Fleas are best jumpers and can reproduce rapidly. Fleas are intimidating opponents. The best way to control fleas is to take steps to prevent an infestation from ever occurring.

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196. The primary purpose of this passage is to
    (A) educate the readers about the physical characteristics of fleas
    (B) compare fleas to other members of the animal kingdom
    (C) relate the problems that can result from a flea infestation
    (D) explain why a flea infestation is hard to control

197. The author's tone in the passage is
    (A) concerned
    (B) passionate
    (C) informative
    (D) opinionated

198. Fleas are difficult to squish because they
    (A) have sclerite covering their body
    (B) are shock resistant
    (C) are best jumpers
    (D) are difficult to defeat

199. According to the passage, fleas are resistant to sprays and chemicals because they
    (A) have waterproof bodies
    (B) are excellent jumpers
    (C) reproduce very rapidly
    (D) cannot be squished

200. Using the information in the passage as a guide, it can be concluded that
    (A) humans do not possess the physical characteristics of the flea
    (B) fleas have certain physical advantages in life
    (C) humans do not pay much attention to the fleas
    (D) fleas have many physical disadvantages