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

Test Form No.
टेस्ट फॉर्म संख्या
444 OK 5

27/4/14   Moringe   CY-2013

GK – 1089285

Time Allowed : 2 Hours (For V.H. Candidates : 2 hrs. 40 min.)
निर्धारित समय : 2 घण्टे (दृष्टिबाधित उम्मीदवारों के लिए : 2 घण्टे 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 निम्नलिखित अनुदेशों को ध्यान से पढ़ लें। इस पुस्तिका में प्रश्न अंग्रेजी 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 (1-32) 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. (V.H. candidates will have to ensure that these details are filled in by the scribe. However, all V.H. candidates must put their left-hand thumb impression at the space provided in the Answer-Sheet. Those V.H. 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. 32), 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 V.H. 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 : अंग्रेजी परिज्ञान (50 प्रश्न)
2. अंग्रेजी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेजी विवरण मान्य होगा।
3. सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
4. प्रश्न पत्र में नकारात्मक अंकन होगा। हर गलत उत्तर के लिए 0.25 अंक काट जाएगा।
5. प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जाँच करके देख लें कि इसमें पूरे पृष्ठ (1-32) 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 लें 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 कर दें।)
7. उत्तर-पत्रिका में सभी उत्तर Side-II में प्रश्न संख्या के सामने दिये गये 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 अभ्यर्थी को 'शून्य' अंक दिया जाएगा।
9. परीक्षा-भवन छोड़ने से पहले परीक्षार्थी 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 32) 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 एवं 144 से 150 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं।
14. कोई रफ कार्य उत्तर-पत्रिका पर नहीं करना है। रफ कार्य के लिए स्थान प्रश्नों के नीचे दिया गया है।
15. "परीक्षा हॉलों/कमरों में मोबाइल फोन तथा बेतार संचार साधन पूरी तरह निषिद्ध हैं। प्रत्याशियों को उनके अपने हित में सलाह दी जाता है कि मोबाइल फोन/किसी अन्य बेतार संचार साधन को स्विच आफ 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

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

PART - A

GENERAL INTELLIGENCE & REASONING

Directions : In question nos. 1 to 6, select the related words/ letters/numbers from the given alternatives.

1. BED : GJI :: LON : ___?___
   (A) KNH   (B) QTS   (C) PTS   (D) QST

2. CDGF : HILK :: NORQ : ___?___
   (A) IGNL   (B) UVWY
   (C) PQTS   (D) STWX

3. Reference material : Dictionary :: Periodical : ___?___
   (A) Newspaper   (B) Book
   (C) Atlas   (D) Biography

4. 82 : 06 :: 76 : ___?___
   (A) 24   (B) 15   (C) 01   (D) 12

5. KMNP : ACDF :: PRSU : ___?___
   (A) LNPR   (B) STVW
   (C) TVWY   (D) VXYZ

6. Tea : Cup :: Soup : ___?___
   (A) Mug   (B) Glass
   (C) Spoon   (D) Bowl

Directions : In question nos. 7 to 12, find the odd numbers/ letters/figure/number pair from the given alternatives.

7. (A) 7 - 18   (B) 9 - 26
   (C) 11 - 36   (D) 13 - 42

8. (A) 345   (B) 679   (C) 124   (D) 568

9. (A) H   (B) I   (C) N   (D) W

10. (A) Cognition
    (B) Forgetting
    (C) Convergent Production
    (D) Divergent Production

11. (A) EFGH   (B) WXYZ
    (C) PRSQ   (D) ABCD

12. (A) Disgust   (B) Distress
    (C) Sorrow   (D) Fantasy

13. Which one of the given responses would be a meaningful order of the following ?
    (1) substance   (2) atom
    (3) molecule   (4) proton
    (A) (4), (3), (2), (1)   (B) (4), (2), (3), (1)
    (C) (1), (2), (3), (4)   (D) (2), (3), (4), (1)

14. Arrange the following words as per order in the dictionary.
    (1) Acarpous   (2) Across
    (3) Accede   (4) Academic
    (5) Accentuate
    (A) (1), (2), (4), (3), (5)   (B) (4), (1), (3), (5), (2)
    (C) (2), (3), (1), (4), (5)   (D) (3), (4), (1), (2), (5)

Direction : In question nos. 15 to 18, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

15. 2, 20, 56, 110, ___?___
    (A) 115   (B) 132   (C) 144   (D) 182

16. M E N I P O ___?___ ___?___
    (A) QO   (B) QI   (C) P A   (D) QU

17. 121, 222, 424, ___?___
    (A) 524   (B) 646   (C) 828   (D) 626

18. LMN, MNOP, NOPQR, ___?___
    (A) PQRSTU   (B) OPQRST
    (C) RSTUVW   (D) QRSTUV

SPACE FOR ROUGH WORK

19. Insert the arithmetic operations in the following numerical figures :

$13 * 3 * 4 * 3 = 4$

(A) + ÷ ×

(B) ÷ × +

(C) − × +

(D) + × ÷

20. In a code language 'TEMPORARY' is written as 'EPRSAYOYM' and 'EXCUSE' as 'PGNVXP'. How is 'ASSURE' written in that code ?

(A) OXXYVP

(B) OPPVYP

(C) OXXVYP

(D) OPPVXP

21. From the given alternatives select the word which can be formed using the letters given in the word.

RATIONALISATION

(A) INTERNAL

(B) SENSATION

(C) ALTERATION

(D) TRANSITION

22. If PRQST is coded as 13245 and OTUWV is coded as 05687, then how is TXOQP coded ?

(A) 95210

(B) 59021

(C) 69021

(D) 21096

23. After giving a discount of 15% an article is sold at ₹ 2550/-, what is its marked price ?

(A) 3700

(B) 3200

(C) 3000

(D) 2900

24. How many such pairs of letters are there in the word RECOVERED, which have as many letters between them in the word as in the English alphabet ?

(A) Five

(B) Three

(C) Four

(D) Six

25. If + means ÷, − means ×, × means + and ÷ means −, then which of the alternative is correct ?

(A) $10 - 12 + 2 \div 30 \times 1 = 10$

(B) $5 \times 8 - 5 + 5 \div 1 = 12$

(C) $55 - 2 + 10 \div 1 \times 5 = 16$

(D) $38 \div 10 - 5 + 7 \times 8 = 25$

26. $\dfrac{5}{9} \times \dfrac{27}{25} \div \dfrac{3}{5} = ?$

(A) 1   (B) 2   (C) 3   (D) 4

27. A is B's wife's husband's brother. C and D are sisters of B. How is A related to C ?

(A) Sister

(B) Brother

(C) Sister-in-law

(D) Wife

28. A train runs for 2 hrs at the speed of 40 km/h. It runs for $4\frac{1}{2}$ hrs at the speed of 60 km/h and then runs for $3\frac{1}{2}$ hrs, at the speed of 70 km/h. Find the average speed of the train.

(A) 57.1 km/h

(B) 59.5 km/h

(C) 80 km/h

(D) 56.87 km/h

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

PRESUMPTION

(A) Ruin

(B) Tier

(C) Pompous

(D) Pump

30. The age of Ram is double as that of Shyam and half as that of Suresh. If the sum of their ages is 70, what is the age of Ram ?

(A) 10   (B) 20   (C) 30   (D) 40

31. If BEAT = 25 - 22 - 26 - 7 and RUST = 9 - 6 - 8 - 7, then how will you code 'BURST' ?

(A) 25 - 6 - 9 - 8 - 7

(B) 25 - 22 - 9 - 8 - 7

(C) 25 - 9 - 6 - 8 - 7

(D) 25 - 9 - 8 - 7 - 6

SPACE FOR ROUGH WORK

Directions : In question nos. 32 to 34, select the missing number from the given responses.

32.

3	4	13
8	8	56
5	3	?

(A) 2   (B) 4   (C) 6   (D) 8

33.

25	17	41
32	40	11
26	?	31

(A) 26   (B) 25   (C) 34   (D) 38

34.

3	5	2
6	7	8
9	10	4
?	65	30

(A) 49   (B) 50   (C) 51   (D) 52

35. One morning after sunrise, Gangadhar was walking facing a pole. The shadow of the pole fell exactly to his right, which direction was he facing ?

(A) East   (B) South

(C) West   (D) North

36. Ram and Ravi start together from a point in opposite direction on scooters. Ram's speed is 21 km/h and Ravi's speed is15 km/h. What will be the distance between them after 20 minutes ?

(A) 45 km   (B) 25 km

(C) 16 km   (D) 12 km

Directions : In question nos. 37 and 38, one statement(s) is followed by two conclusions/Assumptions, I and II. You have to consider the statement(s) to be true, even if they seem(s) to be at variance from commonly known facts. You have to decide which of the given conclusions/assumption, if any, follow(s) from the given statements(s).

37. **Statement :** Read this notice before entering into the stadium.

Assumption :   I.   People are literate.

II.   No blind person comes to the stadium.

(A)   Only assumption I is implicit

(B)   Only assumption II is implicit

(C)   Neither I nor II is implicit

(D)   Both I and II are implicit

38. **Statement :** A car had driven off the road and hit a tree. The driver was efficient enough. The road was not good. The driver drove the car for last fifteen years.

Conclusion :   I.   The accident occurred due to bad condition of road.

II.   There was a mechanical fault in the car.

(A)   Only conclusion I is true

(B)   Only conclusion II is true

(C)   Both the conclusions can be true

(D)   None of the conclusions can be true

39. There are three intersecting circles representing English knowing persons, sportsman and persons who are working as policeman. Different regions so obtained in the figure are marked 1, 2, 3, 4, 5, 6 and 7.
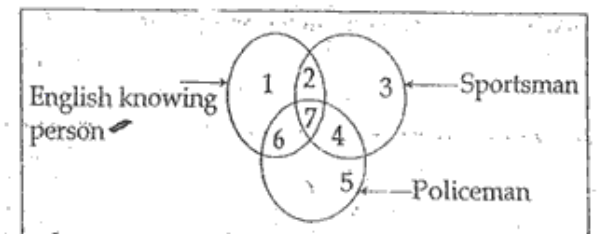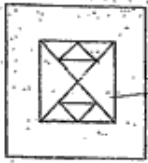

If you select persons, who do not know English and are not policeman, which of the region is to be selected ?

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

SPACE FOR ROUGH WORK

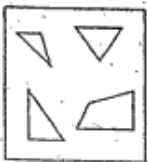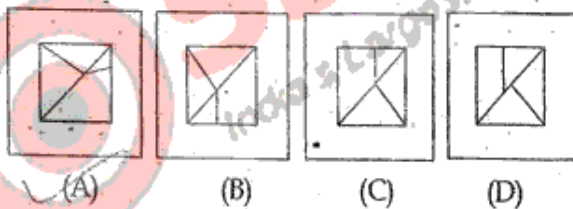40. How many triangles are there in this figure?

Question figure:

(A) 10 (B) 12

(C) 14 (D) 16 or more
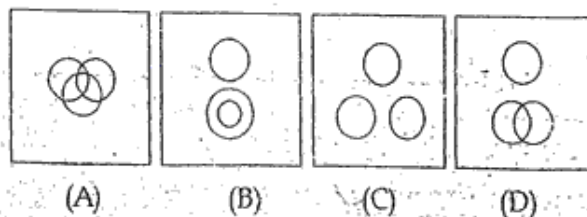
41. Form the correct pattern with the segments given.

Question figure:

Answer figures:
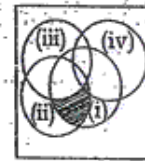

(A) (B) (C) (D)

42. Which one of the following diagrams represents the correct relationship with the Class teacher, Girls and Boys of Std. VIII?

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

43. The following diagram represents people who speak different languages.

(i) Kannada (ii) English
(iii) Hindi (iv) Marathi

What does the shaded area respresents?

(A) People who speak Kannada and English.
(B) People who speak English and Hindi.
(C) People who speak Kannada, English and Hindi.
(D) People who speak Kannada, English and Marathi.

Directions : In question nos. 44 and 45, which answer figure will complete the pattern in the question figure?
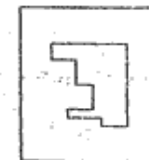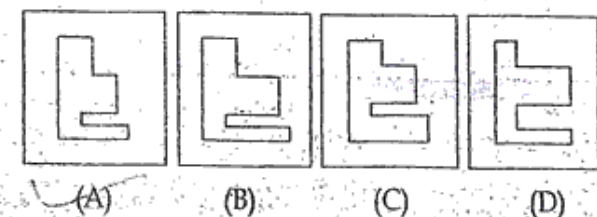
44. Question figure:
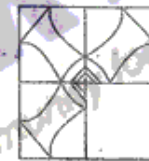
Answer figures:
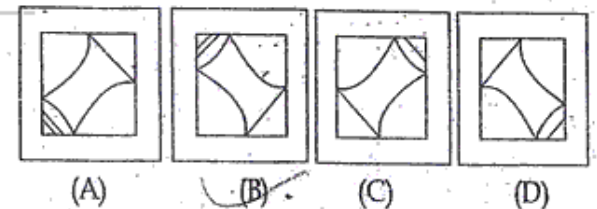
(A) (B) (C) (D)
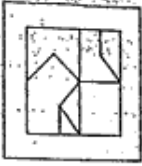
45. Question figure:
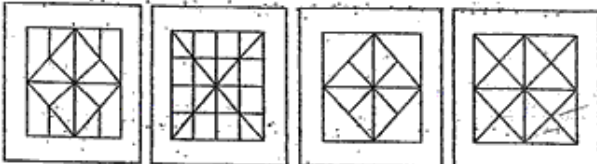

Answer figures:

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

SPACE FOR ROUGH WORK

Direction : In question nos. 46 and 47, from the given answer figures, select the one in which the question figure is hidden/embedded.
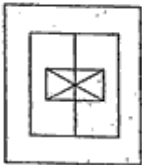
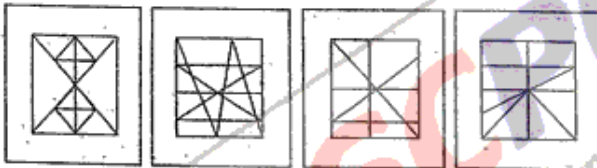**46.** Question figure :

Answer figures :

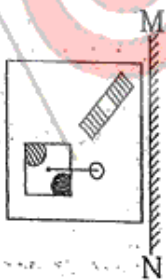(A)   (B)   (C)   (D)

47. Question figure :
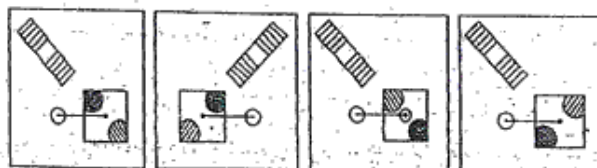

Answer figures :

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

48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure ?

Question figure :

Answer figures :

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

49. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'N' can be represented by 43, 34, etc., and 'R' can be represented by 97, 68, etc. Similarly, you have to identify the set for the word given 'POLO'.

Matrix - I	0	1	2	3	4
4	K	L	M	N	O
3	L	M	K	O	N
2	N	O	L	M	K
1	M	N	O	K	L
0	O	K	N	L	M

Matrix - II	5	6	7	8	9
9	P	Q	R	S	T
8	T	S	Q	P	R
7	R	T	S	Q	P
6	S	P	T	R	Q
5	Q	R	P	T	S

(A) 66, 21, 24, 25

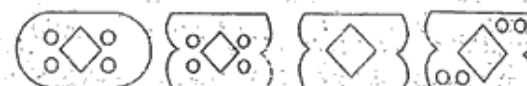(B) 79, 12, 16, 36

(C) 95, 00, 22, 44

(D) 88, 33, 26, 48

50. 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)

SPACE FOR ROUGH WORK

PART - B

GENERAL AWARENESS

51. Species is a group of individuals which can :
    (A) successfully live together in a niche
    (B) survive even under odd conditions
    (C) remain reproductively viable
    (D) not inter-breed

52. The information in 'EEPROM' is erased by using _____.
    (A) Electrons   (B) UV-rays
    (C) Electrical Signals (D) Digital Signals

53. The production, marketing, storage and consumption of nicotine - based products is banned in :
    (A) Delhi   (B) Rajasthan
    (C) Assam   (D) Mizoram

54. Krishi Karman Award for highest growth in foodgrains (wheat, rice and bengal gram) production was conferred on 10th February 2014 to the government of :
    (A) West Bengal   (B) Madhya Pradesh
    (C) Uttar Pradesh (D) Rajasthan

55. Who was the grandson of Ashoka ?
    (A) Dasraj   (B) Dashkumar
    (C) Dashanan   (D) Dasharath

56. When central bank buys securities, bank reserves :
    (A) expands
    (B) contracts
    (C) remains the same
    (D) has no impact on the reserves

57. The Boston Tea Party was :
    (A) a celebration of the harvest of tea leaves
    (B) a protest against the tea drinkers of Boston
    (C) a protest against the tea tax
    (D) an annual social affair

58. Krivoy-Rog has rich resources of :
    (A) Coal   (B) Iron-ore
    (C) Copper   (D) Manganese

59. Who is the winner of the Indira Gandhi Peace Prize 2012 ?
    (A) Ela Bhatt   (B) Ellen Johnson Sirleaf
    (C) Lydia Davis   (D) Christina Legarde

60. Where did Mangal Pandey revolt ?
    (A) Meerut   (B) Barrackpur
    (C) Jhansi   (D) Nasik

61. The National Campaign for People's Right to Information (NCPRI) has been lobbying for the passage of the "Whistle blower's Protection Bill", which is aimed to help :
    (A) Woman Activists (B) Street Vendors
    (C) RTI Activists   (D) None of the above

62. Why were the Congress leaders disappointed with the Cripps Mission (1942) ?
    (A) They wanted full independence rather than Dominion Status.
    (B) The Mission's proposals had not paid attention to the demands of the Muslim League.
    (C) They did not want to share in the responsibility for the defence of India.
    (D) None of the above

63. 'War and Peace' was written by :
    (A) Leo Tolstoy   (B) Lenin
    (C) R. N. Tagore   (D) Sarojini Naidu

64. Enzymes are :
    (A) Carbohydrates
    (B) Biological Catalysts
    (C) Fats
    (D) None of the above

65. Statement 1 : Quinine is used in the treatment of Malaria.
    Statement 2 : It is obtained from the root of Cinchona.
    (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

66. IRDP was introduced during the :
  (A) Sixth Five Year Plan
  (B) Fifth Five Year Plan
  (C) Fourth Five Year Plan
  (D) Third Five Year Plan

67. Who wrote 'As You Like it' ?
  (A) Bernard Shaw
  (B) William Shakespeare
  (C) Leo Tolstoy
  (D) Mulk Raj Anand

68. Collective farming is done in the grasslands of the :
  (A) velds   (B) prairies
  (C) pampas   (D) steppes

69. The Words of "Secular" and "Socialist" were added to the Preamble of Indian Constitution by the _____ amendment.
  (A) 42nd   (B) 44th   (C) 46th   (D) 24th

70. Acetic acid on decarboxylation gives :
  (A) Methane   (B) Ethane
  (C) Propane   (D) Butane

71. The layer present in between xylem and phloem in Dicot Stem is :
  (A) pith   (B) stele
  (C) cambium   (D) starch sheath

72. The labour which creates value and gets rewarded for its services is called :
  (A) average labour
  (B) productive labour
  (C) unproductive labour
  (D) both skilled and unskilled labour

73. One of the following is the constitutional power of the Indian Parliament :
  (A) Supervising the work of state legislatures
  (B) Amending Indian Constitution as and when required
  (C) Settling disputes among various departments
  (D) Reviewing the work of educational institutions

74. 'Sun is a constant source of energy'. Which nuclei get fused in Sun's atmosphere ?
  (A) Hydrogen   (B) Helium
  (C) Uranium   (D) Plutonium

75. "Jai Hind" was the slogan given by :
  (A) Chandra Shekhar Azad
  (B) Lokmanya Tilak
  (C) Subhas Chandra Bose
  (D) Gopalkrishna Gokhale

76. In ferns the xylem is :
  (A) Exarch   (B) Endarch
  (C) Mesarch   (D) Polyarch

77. Which matters come under the Original Jurisdiction of the High Court ?
  (A) Civil disputes   (B) Election disputes
  (C) Criminal disputes   (D) Constitutional disputes

78. Taj Mahal was designed by :
  (A) Ustad Isa   (B) Ustad Mansur
  (C) Ustad Rahim   (D) Ustad Shamsher

79. Which of the following plans had actual growth rate higher than the targetted growth rate ?
  (A) Fourth Five Year Plan
  (B) Fifth Five Year Plan
  (C) Seventh Five Year Plan
  (D) Eighth Five Year Plan

80. Which one of the following are recorded first by the Seismograph ?
  (A) P - waves   (B) S - waves
  (C) L - waves   (D) R - waves

81. β - particles emitted from a radioactive nuclei are :
  (A) hydrogen nuclei
  (B) helium nuclei
  (C) fast moving neutrons
  (D) fast moving electrons

82. The Nobel Prize for Arthur Kornberg was given for his work on :
  (A) Mutation theory
  (B) One gene one polypeptide hypothesis
  (C) Cracking triplet code
  (D) Isolation of nucleic acids

83. China built the Gwadar Port in :
  (A) Pakistan   (B) Bangladesh
  (C) Myanmar   (D) Vietnam

84. Greenland is a :
  (A) big ice sheet
  (B) high plateau covered with ice
  (C) low plateau
  (D) continent totally covered with snow

85. The UPSC members remain in office :
   (A) for a period of five years or until they attain 60 years which ever is earlier
   (B) for a period of four years or attain 65 years of age which ever is earlier
   (C) for a period of six years or till they attain 65 years of age which ever is earlier
   (D) for a period of six years or till they attain 63 years of age which ever is earlier

86. How many chromosomes pairs are in a human body ?
   (A) 19   (B) 22   (C) 23   (D) 24

87. Which among the following is **not** correctly paired ?
   (A) Lactic acid - Milk
   (B) Citric acid - Lemon
   (C) Butyric acid - Rancid butter
   (D) Formic acid - Vinegar

88. A solid **cannot** change its shape easily compared to liquid because of :
   (A) higher density of solid
   (B) stronger intermolecular force in solid
   (C) larger intermolecular seperation in solid
   (D) bigger molecular size of solid

89. Private investment is otherwise called as :
   (A) foreign institutional investment
   (B) foreign direct investment
   (C) induced investment
   (D) autonomous investment

90. Liquidity preference means :
   (A) Refraining from consumption
   (B) Desire of the public to hold cash
   (C) Showing preference to hold capital assets
   (D) Showing preference to hold bonds and securities

91. The Chairman of LIC is :
   (A) Meira kumar   (B) Vinod Rai
   (C) K. Mehrotra   (D) Laxman Das

92. Which of the following is **not** an attribute of <font> element ?
   (A) Color   (B) Face
   (C) Size   (D) Archive

93. Linnalus is considered as the 'Father of Taxonomy' because he :
   (A) was the First Person to classify plants
   (B) coined the term 'Taxonomy'
   (C) proposed binomial nomenclature
   (D) authored many books on Taxonomy

94. Which of the following movement was not led by Mahatma Gandhi ?
   (A) Champaran Satyagraha
   (B) Bardoli Satyagraha
   (C) Non-cooperation Movement
   (D) Civil Disobedience Movement

95. In nature, trophic levels are found in :
   (A) Root system   (B) Shoot system
   (C) Ecosystem   (D) Tissue system

96. If the earth stops rotating, the apparent value of g on its surface will :
   (A) increase everywhere
   (B) decrease everywhere
   (C) remain the same everywhere
   (D) increase at some places and remain the same at other places

97. Dr. B. R Ambedkar was conferred "Bharat Ratna" during the regime of :
   (A) UPA   (B) NDA
   (C) BJP   (D) JD

98. Tape recorder records sounds in the form of :
   (A) Electrical energy   (B) Magnetic energy
   (C) Variable resistance (D) Sound waves

99. Enumerate the Vedangas :
   (A) Six   (B) Four
   (C) Five   (D) Eleven

100. Probiotic curd (Yogurt) contains health benefitting good :
   (A) source of energy   (B) transgenic genes
   (C) antibiotics   (D) bacteria

PART - C
QUANTITATIVE APTITUDE

101. If ΔFGH is isosceles and FG < 3 cm, GH = 8 cm, then of the following, the true relation is :
(A) GH < GF
(B) GH = FH
(C) GF = GH
(D) FH > GH

102. If $x - \dfrac{1}{x} = 1$ then the value of $\dfrac{x^4 - \dfrac{1}{x^2}}{3x^2 + 5x - 3}$ is :
(A) 0
(B) $\dfrac{1}{4}$
(C) $\dfrac{1}{2}$
(D) $\dfrac{3}{4}$

103. If $\tan\theta + \cot\theta = 2$ then the value of θ is :
(A) 30°
(B) 45°
(C) 60°
(D) 90°

104. If $x = \sqrt{3} + \sqrt{2}$ then the value of $x^3 - \dfrac{1}{x^3}$ is :
(A) $8\sqrt{2}$
(B) $10\sqrt{2}$
(C) $14\sqrt{2}$
(D) $22\sqrt{2}$

105. If $x = \dfrac{\cos\theta}{1 - \sin\theta}$, then $\dfrac{\cos\theta}{1 + \sin\theta}$ is equal to :
(A) $\dfrac{1}{1 - x}$
(B) $x - 1$
(C) $\dfrac{1}{x}$
(D) $\dfrac{1}{x + 1}$

106. If ABC is an equilateral triangle and P, Q, R respectively denote the middle points of AB, BC, CA then :
(A) PQR must be a right angled triangle
(B) PQR must be an equilateral triangle
(C) PQ + QR + PR = AB
(D) PQ + QR + PR = 2AB

107. The cost of a house is ₹ X lakhs in 2005. After 3 years, the owner of the house sold it for 25% more than she paid it. But she has to pay a tax of 50% of the gain. The tax amount she has to pay is :
(A) X/24
(B) X/2
(C) X/8
(D) X/4

108. Which is the largest of the following fractions ?
$\dfrac{2}{3}, \dfrac{3}{5}, \dfrac{8}{11}, \dfrac{11}{17}$
(A) $\dfrac{2}{3}$
(B) $\dfrac{8}{11}$
(C) $\dfrac{3}{5}$
(D) $\dfrac{11}{17}$

109. If goods be purchased for ₹ 450 and one third sold at a loss of 10%. At what gain percent should the remainder be sold so as to gain 20% on the whole transaction ?
(A) 30%
(B) 32%
(C) 35%
(D) 28%

110. In a triangle, if orthocentre, circumcentre, incentre and centroid coincide, then the triangle must be :
(A) right - angled
(B) obtuse angled
(C) isosceles
(D) equilateral

111. In ΔABC, ∠B = 90° and AB : BC = 2 : 1. The value of $\sin A + \cot C$ is :
(A) $3\sqrt{5}$
(B) $3 + \sqrt{5}$
(C) $\dfrac{2 + \sqrt{5}}{2\sqrt{5}}$
(D) $2 + \sqrt{5}$

112. Area of the floor of a cubical room is 48 sq.m. The length of the longest rod that can be kept in that room is :
(A) 6 m
(B) 9 m
(C) 12 m
(D) 18 m

113. If $x + y = 15$ then $(x - 10)^3 + (y - 5)^3$ is :
(A) 0
(B) 25
(C) 125
(D) 625

114. What is the product of the roots of the equation $x^2 - \sqrt{3} = 0$?
(A) $-\sqrt{3}$
(B) $+\sqrt{3}$
(C) $\sqrt{3}i$
(D) $-\sqrt{3}i$

SPACE FOR ROUGH WORK

115. A man saves ₹ 25 on the purchase of an article on which a discount of 20% is allowed. How much did the man pay ?

(A) ₹ 125   (B) ₹ 75

(C) ₹ 150   (D) ₹ 100

116. The numerical value of

$$1 + \frac{1}{\cot^2 63°} - \sec^2 27° + \frac{1}{\sin^2 63°} - \csc^2 27° :$$

(A) 0   (B) 1   (C) 2   (D) −1

117. The minimum numbers of common tangents drawn to two circles when both the circle touches externally is :

(A) 0   (B) 1   (C) 2   (D) 3

118. The angle subtended by a chord at its centre is 60°, then the ratio between chord and radius is :

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

(C) 1 : 1   (D) $\sqrt{2}$: 1

119. For what value (s) of K the expression

$$p + \frac{1}{4}\sqrt{p} + K^2 \text{ is a perfect square ?}$$

(A) $\pm \frac{1}{2}$ (B) $\pm \frac{1}{3}$ (C) $\pm \frac{1}{4}$ (D) $\pm \frac{1}{8}$

120. A sum of ₹ 76 is divided among A, B, C in such a way that A gets ₹ 7 more than that what B gets and B gets ₹ 6 more than what C gets. The ratio of their shares is :

(A) 19 : 25 : 33   (B) 19 : 24 : 33

(C) 32 : 25 : 19   (D) 32 : 24 : 20

121. A cistern normally takes 10 hours to be filled by a tap. But because of a leak, it takes 2 hours more. In how many hours will the leak empty a full cistern ?

(A) 60   (B) 45   (C) 48   (D) 30

122. You arrive at your school 5 minutes late if you walk with a speed of 4 km/h, but you arrive 10 minutes before the scheduled time if you walk with a speed of 5 km/h. The distance of your school from your house (in km) is :

(A) 2   (B) 4   (C) 5   (D) 10

123. If out of 10 selected students for an examination, 3 were of 20 years age, 4 of 21 and 3 of 22 years, the average age of the group is :

(A) 20 years   (B) 22 years

(C) 21 years   (D) 21.5 years

124. If 15% of x is same as 20% of y then $x : y$ is :

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

125. If $\sin \frac{\pi x}{2} = x^2 - 2x + 2$, then the value of x is :

(A) 0   (B) 1

(C) −1   (D) none of these

126. The least number which must be added to 1728 to make it a perfect square is _____ .

(A) 30   (B) 36   (C) 32   (D) 38

127. The value of $\frac{\sin 43°}{\cos 47°} + \frac{\cos 19°}{\sin 71°} - 8 \cos^2 60°$:

(A) −1   (B) 0   (C) 1   (D) 2

128. If $a = 2 + \sqrt{3}$, then the value of $\left(a^2 + \frac{1}{a^2}\right)$ is :

(A) 10   (B) 12   (C) 14   (D) 16

129. If $\cos \pi x = x^2 - x + \frac{5}{4}$, the value of x will be :

(A) 0   (B) 1

(C) −1   (D) None of the above

130. Two triangles ABC and PQR are congruent. If the area of △ABC is 60 sq. cm, then area of △PQR will be :

(A) 120 sq. cm   (B) 60 sq. cm

(C) 30 sq. cm   (D) 15 sq. cm

131. A can do a piece of work in 6 days, B in 10 days and C in 15 days. They jointly complete the work and earn ₹ 300. The sum of their wages for 2 days is :

(A) ₹ 120   (B) ₹ 180

(C) ₹ 200   (D) ₹ 160

SPACE FOR ROUGH WORK

132. If the opposite sides of a quadrilateral and also its diagonals are equal, then each of the angle of the quadrilateral is :
    (A) 60°   (B) 90°   (C) 120°   (D) 100°

133. If the side of a square is reduced by 50%, its area will be reduced by :
    (A) 50 %   (B) 75%   (C) 80%   (D) 60%

134. The term to be added to $121a^2 + 64b^2$ to make a perfect square is :
    (A) $188\,b^2a$ (B) 176 ab
    (C) $276\,a^2b$ (D) 178 ab

135. A tank 40 m long, 30 m broad and 12 m deep is dug in a field 1000 m long and 30 m wide. By how much will the level of the field rise if the earth dug out of the tank is evenly spread over the field ?
    (A) 5 m   (B) 2 m
    (C) 1.2 m   (D) 0.5 m

136. A train crosses a platform in 30 seconds travelling with a speed of 60 km/h. If the length of the train be 200 metres, then the length (in metres) of the platform is :
    (A) 500   (B) 400   (C) 300   (D) 200

137. If $\dfrac{b-c}{a} + \dfrac{a+c}{b} + \dfrac{a-b}{c} = 1$ and $a - b + c \neq 0$ then which one of the following relation is true ?
    (A) $\dfrac{1}{b} = \dfrac{1}{a} + \dfrac{1}{c}$ (B) $\dfrac{1}{c} = \dfrac{1}{a} + \dfrac{1}{b}$
    (C) $\dfrac{1}{a} = \dfrac{1}{b} + \dfrac{1}{c}$ (D) $\dfrac{1}{b} = \dfrac{1}{a} - \dfrac{1}{c}$

138. A and B together can complete a job in 8 days. Both B and C, working alone can finish the same job in 12 days. A and B commence work on the job, and works for 4 days, whereupon A leaves. B continues for 2 more days, and then leaves too. C now starts working, and finishes the job. How many days did C require?
    (A) 4   (B) 5   (C) 8   (D) 3

139. For a triangle ABC, D and E are two points on AB and AC such that $AD = \dfrac{1}{4} AB$, $AE = \dfrac{1}{4} AC$. If BC = 12 cm then DE is :
    (A) 6 cm   (B) 5 cm   (C) 4 cm   (D) 3 cm

140. On what sum of money will the difference between S.I and C.I for 2 years at 5% per annum be equal to ₹25/- ?
    (A) 9,000   (B) 10,000
    (C) 10,500   (D) 9,500

141. A shopkeeper marks his goods 40% above the cost price. He allows a discount of 5% for cash payment to his customers. He receives ₹ 1064 after paying the discount. His profit is :
   (A) ₹ 800   (B) ₹ 264
    (C) ₹ 164   (D) ₹ 200

142. If a, b, c, d, e are five consecutive odd numbers, their average is :
    (A) $a + 4$ (B) $5(a + 4)$
    (C) $\dfrac{abcde}{5}$ (D) $5(a + b + c + d + e)$

143. Anand marks up the price of an article by 50% and then allows a discount of 20% and sells it to Balaji. Balaji sells it for ₹ 20 more than what he purchased for, this S.P is 30% more than the original C.P of the article. Then Balaji's profit % is :
    (A) 9%   (B) 7.5%
    (C) 6.66%   (D) 8.33%

The graph shows the result of 10th class students of a school for 4 years. Study the graph and answer Q.No. 144 to 147.
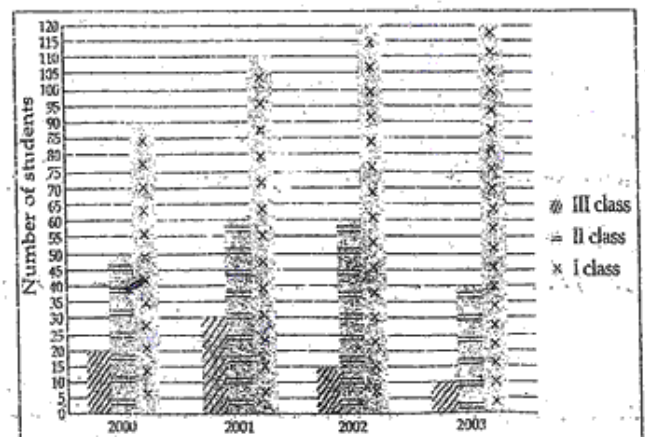
144. The year in which the maximum number of students appeared for the 10th class exam is :
    (A) 2000   (B) 2001   (C) 2002   (D) 2003

SPACE FOR ROUGH WORK

145. The ratio of students scored second class to the total student appeared in the year 2000 is :
   (A) 11 : 16   (B) 3 : 16   (C) 4 : 17   (D) 5 : 16

146. The number of students appeared for the 10th class exam in the year 2002 is :
   (A) 120   (B) 180   (C) 195   (D) 200

147. The percentage increase of first class in the year 2003 over the year 2002 is approximately :
   (A) 9%   (B) 12%   (C) 0%   (D) 10%

Study the diagram and answer Q. No. 148 to 150.

Food
Clothing
Education
Fuel
House rent
Miscellaneous
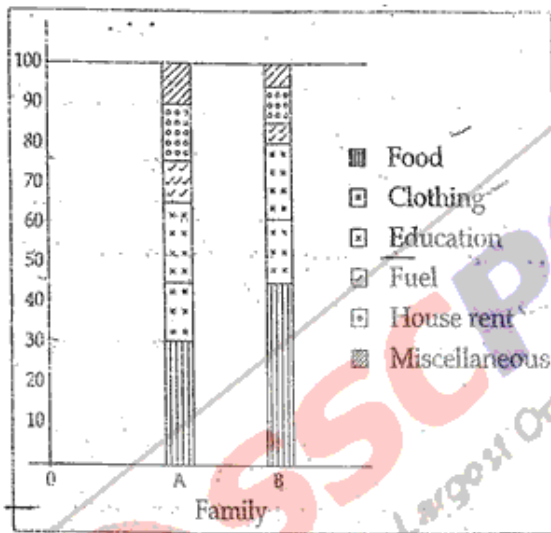
148. What fraction of the total expenditure is spent on Education in family A ?
   (A) 13/20   (B) 2/3   (C) 9/13   (D) 1/5

149. If the total annual expenditure of family A is ₹ 30,000 then money spent on food, clothes and house rent is :
   (A) ₹ 18,500   (B) ₹ 18,000
   (C) ₹ 21,000   (D) ₹ 15,000

150. If the total annual expenditure of family B is ₹ 10,000 then money spent on clothes during the year is :
   (A) ₹ 200   (B) ₹ 600
   (C) ₹ 6000   (D) ₹ 1500

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144. The average weight of 150 workers is 60 kg. The average weight of men is 80 kg and that of the ladies is 50 kg. The number of ladies is :
   (A) 50   (B) 70   (C) 78   (D) 100

145. On what sum of money will the simple interest for 3 years at 8% per annum be half of the compound interest on ₹ 400 for 2 years at 10% per annum ?
   (A) ₹ 165   (B) ₹ 175
   (C) ₹ 195   (D) ₹ 205

146. Find the odd out of the following set of numbers 15, 20, 27, 32, 39, 40 :
   (A) 15   (B) 40   (C) 27   (D) 39

147. If $x = 2$, $y = 4$, $p = 8$, $q = 10$, find the value of $\sqrt{xyp + \dfrac{2y}{p - y}} + 2q$.
   (A) 30   (B) 26   (C) 32   (D) 24

148. In a right angled triangle, with sides a and b and hypotenuse c if the altitude on the hypotenuse is x, then :
   (A) $ab = x^2$ (B) $\dfrac{ab}{c} = x^2$
   (C) $a^2 + b^2 = 2x^2$ (D) $\dfrac{1}{a^2} + \dfrac{1}{b^2} = \dfrac{1}{x^2}$

149. The selling price of 12 articles is equal to the cost price of 15 articles. The gain percent is :
   (A) $6\dfrac{2}{3}$%   (B) 20%
   (C) 25%   (D) 80%

150. In 45 litre of phenol-water the ratio of phenol to water is 2 : 23. The amount of water that should be added to it to make the ratio 3 : 37 :
   (A) 4 litre   (B) 3 litre
   (C) 5 litre   (D) 2 litre

SPACE FOR ROUGH WORK

PART - D

ENGLISH COMPREHENSION

Directions : In question 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.

Directions : In question 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.

151. Part of the research program /
(A)

involved interviewing teenagers /
(B)

in inner-city areas / No error.
(C)　　　　　　(D)

152. Much harassed / he left hostel / ——
(A)　　　　　(B)

bag and baggage / No Error.
(C)　　　　(D)

153. The young man / was surprised /
(A)　　　　　(B)

perhaps a shade scandalized / No error.
(C)　　　　　　　(D)

154. I could not put up at a hotel /
(A)

because the board and lodging charges /
(B)

were too expensive / No error.
(C)　　　　　(D)

155. Every boy and every girl / were given /
(A)　　　　　　(B)

a packet of sweets / No error.
(C)　　　　(D)

156. The sound effects _____ by the recording director.

(A) being provide　　(B) been provided

(C) provided　　　　(D) are provided

157. The _____ of cotton is very heavy.

(A) bail　　　　(B) bale

(C) band　　　　(D) bald

158. She heard the _____ of the hinges.

(A) rustling　　　(B) crashing

(C) creaking　　　(D) rattling

159. The hunter killed two _____ for dinner.

(A) fowl　　　　(B) foul

(C) fool　　　　(D) flour

160. The principal has given his _____ to the match.

(A) ascent　　　(B) refuse

(C) assent　　　(D) except

Directions : In question 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. Honest :

(A) upright
(B) direct
(C) actual
(D) authentic

162. Cantankerous :

(A) quarrelsome
(B) rash
(C) disrespectful
(D) noisy

163. Vocation :

(A) seminar
(B) occupation
(C) holiday
(D) examination

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

164. FRUGALITY :

(A) prodigality
(B) enmity
(C) captivity
(D) gaiety

165. MISERABLE :

(A) happy
(B) active
(C) laudable
(D) solitary

166. HUMANE :

(A) living being
(B) person
(C) man
(D) unkind

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

167. He is a cut above all the other boys in the group.

(A) more active than
(B) a little rougher than
(C) rather superior to
(D) quite taller than

168. As soon as the police arrived, the bank robbers showed the white flag.

(A) surrendered
(B) ran away
(C) were incensed
(D) calmly left the scene

169. To cut one short.

(A) to insult one
(B) to criticise one
(C) to interrupt one
(D) to love one

170. To throw dust in one's eyes.

(A) to deceive
(B) to show false things
(C) to make blind
(D) to harm someone

171. If you read between the lines, you will appreciate what he writes.

(A) can read a lot quicker
(B) know what the writer thinks
(C) can read and write in the language
(D) can read leaving lines in between

Directions : In question 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. We have to know that we can achieve things slowly and gradually, not overnight.
 (A) would know that (B) had to know that
 (C) must know that (D) No improvement

173. During his long discourse, he did not touch the central idea of the topic.
 (A) touch (B) touch on
 (C) touch upon (D) No improvement

174. Rajesh's ability to use the local language surprised me.
 (A) knowing of (B) confidence with
 (C) familiarity with (D) No improvement

175. This telephone number is not existing.
 (A) has not existed (B) has not been existing
 (C) does not exist (D) No improvement

176. Unless they modify the system, our future generations will suffer.
 (A) Unless the system is modified
 (B) Unless the system will be modified
 (C) If the system will not be modified
 (D) No improvement

177. We did not see this movie yet.
 (A) never seen (B) have not seen
 (C) never have seen (D) No improvement

178. The student's interest was raised by an article he had read.
 (A) quickened (B) multiplied
 (C) increased (D) No improvement

179. I usually did not take sugar in my tea.
 (A) do not take (B) do not takes
 (C) have not taken (D) No improvement

180. The sight of the lizard is hateful to me.
 (A) repulsion (B) repulsive
 (C) repulse (D) No improvement

181. Would it be impertinent to ask why you are leaving ?
 (A) if asking why you are leave
 (B) for asking why you are leave
 (C) to asking why you are leave
 (D) No improvement

Directions : In question 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. Person who files a suit :
 (A) suitor (B) plaintiff
 (C) accuser (D) charger

183. Take great pleasure :
 (A) satisfied (B) uphold
 (C) overhaul (D) revel

184. The practise of having many wives :
 (A) calligraphy (B) polygamy
 (C) polyandry (D) bigamy

185. A person who abstains completely from alcoholic drinks :
 (A) derelict (B) subjunctive
 (C) incriminatory (D) teetotaller

186. A strong dislike :
 (A) entreaty (B) animosity
 (C) malice (D) reciprocity

187. The Mahabharata is a long poem based on a noble theme :
 (A) story (B) narration
 (C) epic (D) summary

188. A frog lives both on land as well as in water :
 (A) amphibian (B) aquatic
 (C) ambidexterous (D) animate

Directions : In question No. 189 and 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) propeler (B) propeller
 (C) propelre (D) propellar

190. (A) missionary (B) misionary
 (C) missionnary (D) misionerry

Directions : In question 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 [Question No. 191 to 195]

The reports published by a Delhi based non-governmental organization working for the elimination of child labour in India suggest that there is no end in sight to the sordid saga of child labour. The studies conducted reveal the nightmarish ordeals that a vast majority of children undergo for getting the basic necessities of life. One of the activists narrated the heart-rending and shocking stories of many hapless children. He accused the society of insensitivity towards this vulnerable section.

It is said that more than five percent of the total Indian population are child workers. Tens of thousands are chiefly engaged in agriculture in rural areas and in a variety of industries in urban areas. Children as young as seven years of age spend days stitching footballs, boxing and cricket gloves for export. Many children spend their entire childhood making carpets with their dexterous hands. Unofficial figures suggest that as many as 40 to 100 million children work in hazardous industries like glassware, fireworks, quarries etc. Many of them have been forced to work in unhygienic conditions often on a casual basis.

191. _____ of children work in hazardous conditions.
(A) Millions
(B) Five percent
(C) Thousands
(D) Many

192. The word heart-rending means _____.
(A) distressing
(B) shocking
(C) painful
(D) risky

193. The society is accused of _____ towards the problem of child labour.
(A) vulnerability
(B) insensitivity
(C) bias
(D) reports

194. Their childhood is spent in _____ conditions.
(A) nightmarish
(B) hapless
(C) urban
(D) vast

195. The report was published by _____
(A) the Delhi government.
(B) a governmental organization.
(C) an activist.
(D) a Delhi based non-governmental organization.

Passage - II [Question No. 196 to 200]

The advent of electric power was, in a way, comparable to the successful development and application of nuclear power in the 20th century. In fact, the historical roots of electricity extend far back into antiquity. Many men had a hand both in acquiring basic knowledge about the invisible form of power and in developing the ways adopted for practical purpose. One of the vital keys that helped to unlock the doors leading to the production of electricity was the discovery, in 1831, of the principle of electro-magnetic induction. This discovery was made simultaneously by Michael Faraday in England and Joseph Henry in the United States. From it came the generator, sometimes also called the dynamo but several decades of development had to follow before the first practical dynamos or generator came into existance in early 1870.

196. The generator was also known as the _____.
(A) dynamo
(B) inventor
(C) conductor
(D) inductor

197. Another word for "advent" is _____.
(A) arrival
(B) invention
(C) constitution
(D) discovery

198. According to the author.
(A) Nuclear power and electricity were discovered in the 20th century.
(B) The discovery of the principle of electro-magnetic induction was not an important discovery.
(C) The advent of electric power is equivalent to the application of nuclear power in the 20th century.
(D) Micheal Faraday and Joseph Henry revolutionized elecricity in the USA.

199. Micheal Faraday and Joseph Henry discovered _____
(A) the generator
(B) the dynamo
(C) the principle of electro-magnetic induction
(D) the application of nuclear power

200. Give a synonym for "antiquity".
(A) Antipathy
(B) Modern
(C) Uniqueness
(D) Ancient

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