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SSC COMBINED HIGHER SECONDARY EXAM
2013: QUESTION PAPER- 27 OCT 2013 (1ST
SITTING)

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Test Form No.
टेस्ट फॉर्म संख्या
001 PK 2

CF 2013

HQ - 1300585

Time Allowed : 2 Hours (For V.H. Candidates : 2 hr. 40 min.)

Maximum Marks : 200

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

अधिकतम अंक: 200

Read the following instructions carefully before you begin to answer the questions.

This Booklet contains questions in English as well as in Hindi.

प्रश्नों के उत्तर देने से पहले निम्नलिखित अनुदेशों को ध्यान से पढ़ लें।

इस पुस्तिका में प्रश्न अंग्रेजी तथा हिन्दी दोनों में दिये गये हैं।

INSTRUCTIONS TO CANDIDATES	उम्मीदवारों के लिए अनुदेश
1. This Booklet contains 200 questions in all comprising the following four parts : Part-I : General Intelligence (50 Questions) Part-II : English Language (50 Questions) Part-III : Quantitative Aptitude (50 Questions) Part-IV : General Awareness (50 Questions)	1. इस पुस्तिका में कुल 200 प्रश्न हैं, जिनमें निम्नलिखित चार भाग शामिल हैं : भाग-I : सामान्य बुद्धिमत्ता (50 प्रश्न) भाग-II : अंग्रेजी भाषा (50 प्रश्न) भाग-III : मात्रात्मक अभिज्ञता (50 प्रश्न) भाग-IV : सामान्य जानकारी (50 प्रश्न)
2. In questions set bilingually in English and Hindi, in case of discrepancy, the English version will prevail.	2. अंग्रेजी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेजी विवरण मान्य होगा।
3. All questions are compulsory and carry equal marks.	3. सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
4. The paper carries negative marking. 0.25 marks will be deducted for each wrong answer.	4. प्रश्न पत्र में नकारात्मक अंकन होगा। हर गलत उत्तर के लिए 0.25 अंक काटा जाएगा।
5. Before you start to answer the questions you must check up this Booklet and ensure that it contains all the pages (1-40) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.	5. प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जाँच करके देख लें कि इसमें पूरे पृष्ठ (1-40) 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. 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 will be 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.)	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 उम्मीदवारों के लिये 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. 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.	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 दिये जाएँ। जो अण्डाकार खाने काले/नीले बॉल-पॉइंट पेन से नहीं भरे जाएँगे, उनके लिए कोई अंक नहीं दिया जाएगा।
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.	8. ओ.एम.आर. उत्तर-पत्रिका में भरी गई कूट सूचना को एक मशीन पढ़ेगी। यदि सूचना अपूर्ण है अथवा आवेदन प्रपत्र में दी गई सूचना से भिन्न है, तो ऐसे अभ्यर्थी को 'शून्य' अंक दिया जाएगा।
9. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination-Hall.	9. परीक्षा-भवन छोड़ने से पहले परीक्षार्थी को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए।
10. Failure to comply with any of the above instructions will render a candidate liable to such action / penalty as may be deemed fit.	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. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 40), which you should read carefully before actually answering the questions.	11. विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे (पृष्ठ संख्या 40) में छपे हुए निर्देशों में दे दी गई है; इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें।
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.	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. In lieu of Question Nos. 43 to 50 and 147 to 150 relating to figural portions, alternate questions have been provided to be attempted by V.H. Candidates only.	13. आकृति से सम्बन्धित प्रश्न संख्या 43 से 50 और 147 से 150 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं।
14. No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions.	14. कोई रफ़ कार्य उत्तर-पत्रिका पर नहीं करना है। रफ़ कार्य के लिए स्थान प्रश्नों के नीचे दिया गया है।
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."	15. "परीक्षा हॉलों/कमरों में मोबाइल फोन तथा बेतार संचार साधन पूरी तरह निषिद्ध हैं। प्रत्याशियों को उनके अपने हित में सलाह दी जाती है कि मोबाइल फोन/किसी अन्य बेतार संचार साधन को खिच ऑफ़ करके भी अपने पास न रखें। इस प्रावधान का अनुपालन न करने पर परीक्षा में अनुचित उपायों का प्रयोग माना जाएगा और उनके विरुद्ध कार्रवाई की जाएगी, उनकी अभ्यर्थिता रद्द कर देने सहित।"

इस पुस्तिका की सील / पोलिथिन बैग तब तक न खोलें जब तक कहा न जाए

CF 2013



001 PK 2

PART - I

GENERAL INTELLIGENCE

Directions : In Question Nos. 1 to 3, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

1. CAE, HFJ, MKO, RPT, ?
(A) WUY (B) UTY
(C) VUZ (D) WUZ
2. 12, 26, 54, 110, ?
(A) 223 (B) 222
(C) 220 (D) 225
3. 2, 3, 10, 15, ?
(A) 25 (B) 26
(C) 24 (D) 30
4. Jamal was born on Feb. 29, 1988. How many birthdays will be celebrated up to 29-2-2004 ?
(A) 4 (B) 5
(C) 8 (D) 16
5. Ram is elder than Shyam. Lakshman is elder than Shyam, but younger than Ram. Hanuman is younger than both Hari and Shyam. Shyam is elder than Hari. Who is the youngest ?
(A) Ram (B) Lakshman
(C) Hanuman (D) Hari
6. Raju and his grandfather have an age difference of 65 years at present. After 10 years the sum of their age is 95 years. What is the present age of Raju and his grandfather ?
(A) 15 & 80 (B) 10 & 65
(C) 5 & 70 (D) 5 & 65
7. In a class, Karthik's rank is 17th from the top and 28th from the bottom. How many students are there in the class ?
(A) 45 (B) 41
(C) 40 (D) 44
8. Vikash said, "That boy is the grandson of my mother's husband. I have no brother and sister." How is the boy related to Vikash ?
(A) Uncle (B) Son
(C) Nephew (D) Cousin
9. In given letter series how many times 'L' occurs, which is in between TY ?
BTLYDETLFTLYTLYZGHTLILYTLY
(A) 3 (B) 5
(C) 4 (D) 6
10. If A = 1, BAD = 7, then HAT = ?
(A) 8 (B) 10
(C) 19 (D) 29
11. If FAITH is coded as 82731, HABIT is coded as 12573 and HEALTH is coded as 192431, how can BELIEF be coded as ?
(A) 594598 (B) 594789
(C) 594978 (D) 594798
12. If NATIONAL can be written as LNAANTOI, how can DOMESTIC be written ?
(A) CDIOMTES (B) CDIOTMSE
(C) CTSIMODE (D) CSITEMOD

13. Some letters are given below in the first line and numbers are given below them in the second line. Numbers are the codes for the alphabets and vice-versa. Choose the correct letter code for the given set of numbers.

E M K B Z W Q U D J

5 9 1 6 4 8 2 0 7 3

6 3 0 8 2 5

- (A) B J Q W U E (B) B J U W Q E
(C) B J W U Q E (D) B J E W U Q

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

ABOMINABLE

- (A) BOWEL (B) METAL
(C) BLAND (D) BANAL

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

BANGALORE

- (A) GARBAGE (B) ORANGE
(C) LARGE (D) BANGLE

16. Out of 1865 people, 660 can speak English and 1305 can speak Marathi. But, 120 persons can't speak either language. Then how many can speak both languages ?

- (A) 220 (B) 440
(C) 120 (D) 1085

Directions : In Question Nos. 17 and 18, select the missing number from the given responses.

17. $4 \quad 20 \quad 5$

$5 \quad ? \quad 6$

$9 \quad 45 \quad 5$

(A) 25 (B) 30

(C) 15 (D) 21

18. $11 \quad 20 \quad 35$

$4 \quad 3 \quad 2$

$5 \quad 3 \quad 2$

$49 \quad 63 \quad ?$

(A) 39 (B) 72

(C) 112 (D) 100

Directions : In Question Nos. 19 and 20, some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

19. $6 \times 4 \times 5 = 456$

$3 \times 2 \times 8 = 283$

$4 \times 9 \times 3 = ?$

(A) 349 (B) 934

(C) 394 (D) 493

20. If $228 = 12$ and $337 = 16$, then $569 = ?$

(A) 42 (B) 39

(C) 36 (D) 26

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

$$7 * 2 * 3 * 5 * 6$$

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

22. If 'x' means '+', '+' means '÷', '-' means 'x' and '÷' means '-', then $6 \times 4 - 5 + 2 \div 1 = ?$

- (A) 10 (B) 11
(C) 12 (D) 15

23. Raju is facing North. He goes 35 metres ahead, turns left and walk 20 metres. He turns right and covers 25 metres, then turns right to cover 30 metres. In which direction is he heading ?

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

24. Manoranjan walks 10 km towards South of point 'P', turns to his right and walks 4 km. Turn to his right and walks 10 km and then he turns to his left and covers a distance of 5 km. How far is he from the point 'P' ?

- (A) 1 km (B) 9 km
(C) 14 km (D) 20 km

Directions : In Question Nos. 25 and 26, some statements are given followed by two conclusions/inferences I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

25. **Statements :** All Huts are painted blue.

Some blue buildings are Bungalows.

Inferences : I. All Bungalows are blue.

II. Some blue buildings are not Huts.

- (A) Only inference I follows.
(B) Only inference II follows.
(C) Both inferences I and II follow.
(D) Neither of the two inferences follows.

26. **Statements :** All chillies are garlies. Some garlies are onions.

All onions are potatoes. No potato is ginger.

Conclusions : I. Some chillies are potatoes.

II. No onion is ginger.

- (A) Only conclusion I follows.
(B) Only conclusion II follows.
(C) Both the conclusions I and II follow.
(D) None of the conclusion I or II follows.

27. At a restaurant, five guests are sitting in a row. Neeta is to the left of Manju and to the right of Navin. Rishab is to the right of Kavita, but to the left of Navin. Where is Navin sitting ?

- (A) Extreme right
(B) Centre
(C) Extreme left
(D) Second from the right

Directions : (Q. Nos. 28 to 34) Select the related word/letter/number from the given alternatives.

28. Mathematics : Numbers :: History : ?

- (A) People (B) Events
(C) Dates (D) Wars

29. Ancient : Modern :: Often : ?

- (A) Always (B) Never
(C) Seldom (D) Regular

30. Jaundice : Liver :: ?

- (A) Dialysis : Kidney
(B) Rash : Skin
(C) Imagination : Brain
(D) Valentine : Heart

31. ABDE : PQST :: MNPQ : ?

- (A) EFHI (B) UVXZ
(C) IJLN (D) TVWX

32. ELIMS : SMILE :: KRAPS : ?

- (A) KRAPS (B) SPARK
(C) PARKS (D) KARPS

33. 64 : 100 :: 16 : ?

- (A) 25 (B) 36 (C) 50 (D) 55

34. 167 : 14 :: 143 : ?

- (A) 7 (B) 8 (C) 6 (D) 5

Directions : In Question Nos. 35 to 38, find the odd word/letters/number pair from the given alternatives.

35. (A) Reward (B) Praise
(C) Encourage (D) Punishment

36. (A) Taste buds : Tongue

- (B) Retina : Eye
(C) Follicle : Hair
(D) Balance : Ear

37. (A) FHJL

- (B) DGIK
(C) KMOQ (D) SUWY

38. (A) 66 - 56

- (B) 101 - 90
(C) 41 - 30 (D) 33 - 22

39. Find out the set among the four sets which is like the given set.

(30, 18, 6)

- (A) (40, 28, 14) (B) (50, 38, 26)
(C) (40, 24, 12) (D) (50, 36, 24)

40. Arrange the following according to the stages in the life cycle of a butterfly :

1. Butterfly 2. Caterpillar
3. Eggs 4. Cocoon
(A) 1, 2, 3, 4 (B) 3, 2, 4, 1
(C) 3, 4, 2, 1 (D) 1, 4, 2, 3

41. Arrange the following words as per order in the dictionary :

1. Slide 2. Slice
3. Slick 4. Sild
(A) 4, 3, 2, 1 (B) 4, 2, 3, 1
(C) 2, 4, 1, 3 (D) 2, 3, 1, 4

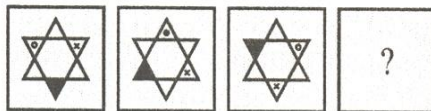
42. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

_ dbc _ d _ ca _ bcad _ c _ db _

- (A) a, a, b, d, b, a, c
(B) b, b, d, c, a, a, d
(C) c, c, b, b, a, d, c
(D) a, c, a, d, d, b, c

43. Choose the correct alternative from the given ones that will complete the series.

Question Figures :



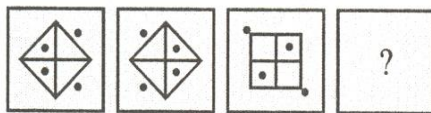
Answer Figures :



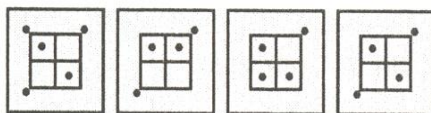
(A) (B) (C) (D)

44. Select the related figure from the given alternatives.

Question Figures :

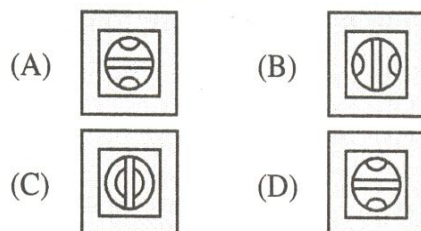


Answer Figures :

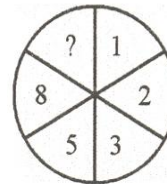


(A) (B) (C) (D)

45. Select the figure which is different from the rest three ?



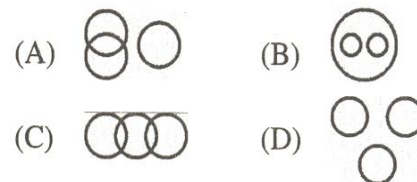
46. Select the missing number from the given responses.



- (A) 10 (B) 12
(C) 13 (D) 15

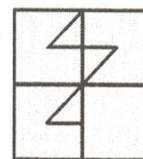
47. Identify the diagram that best represents the relationship among classes given below :

Doctor, Patient, Human being

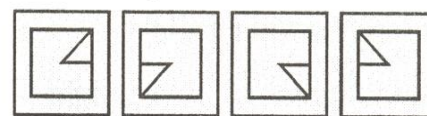


48. Which answer figure will complete the pattern in the question figure ?

Question Figure :



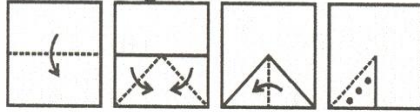
Answer Figures :



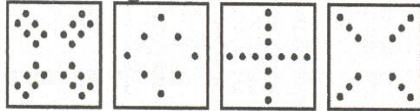
(A) (B) (C) (D)

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

Question figures :



Answer figures :

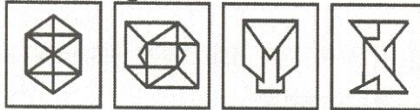


50. From the given answer figures, select the one in which the question figure is hidden/embedded.

Question figure :



Answer figures :



FOR VH CANDIDATES ONLY

43. Find the wrong number in the given series.

2, 5, 14, 41, 122, 366

- (A) 41 (B) 366
(C) 5 (D) 122

44. If Orange is called Lemon, Lemon is called Flower, Flower is called Fish, Fish is called Tail and Tail is called Pen, what is Rose ?

- (A) Pen (B) Lemon
(C) Flower (D) Fish

45. If 'S' means '-', 'Q' means '×', 'R' means '÷' and 'P' means '+' then

$$1 P 45 R 2 Q 2 S 4 = ?$$

- (A) 40 (B) 42 (C) 36 (D) 46

46. A group of 30 students play cricket and football. 20 play cricket and 15 play football. Each student plays at least one game. How many of them play both ?

- (A) 0 (B) 5 (C) 10 (D) 15

47. In a row of trees, a tree is 11th in the row from the left and 16th from the right. How many trees are there in the row ?

- (A) 27 (B) 26 (C) 25 (D) 28

48. What greatest number of 5 digits is divisible by 315 ?

- (A) 99685 (B) 99999
(C) 99855 (D) 99568

49. How many 5s are there in the following number series, which are preceded by '3' but not followed by '2' ?
5243546785325735642354752358356

- (A) Two
(B) Three
(C) Four
(D) More than four

50. In a joint family there are father, mother, 3 married sons and one unmarried daughter. Of the sons, two have 2 daughters each, and one has a son. How many female members are there in the family ?

- (A) 2 (B) 3 (C) 6 (D) 9

PART – II

ENGLISH LANGUAGE

Directions : In Question Nos. 51 & 52, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

51. Pretend

- | | |
|-----------|-------------|
| (A) guess | (B) suspect |
| (C) think | (D) feign |

52. Anguished

- | | |
|----------------|--------------|
| (A) sorrowful | (B) doubtful |
| (C) respectful | (D) joyful |

Directions : In Question Nos. 53 & 54, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

53. Indifferent

- | | |
|---------------|-----------------|
| (A) restless | (B) inattentive |
| (C) attentive | (D) reliable |

54. Agitate

- | | |
|------------|-------------|
| (A) please | (B) disturb |
| (C) pacify | (D) rouse |

Directions : In Question Nos. 55 & 56, 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.

55. (A) wellful (B) wilfull
(C) wilful (D) willfull

56. (A) satelite (B) satellitte
(C) satallite (D) satellite

Directions : In Question Nos. 57 to 59, 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.

57. I saw through the trick and was on guard.

- | | |
|-----------------|--------------|
| (A) anticipated | (B) detected |
| (C) witnessed | (D) defeated |

58. He is not a good lawyer but he has the gift of the gab.

- | |
|----------------------------------|
| (A) He can talk very fast. |
| (B) He can speak very well. |
| (C) He has a good voice. |
| (D) He can pretend convincingly. |

59. We have to put up with the sorrows of life.

- | |
|-----------------------------|
| (A) bear patiently |
| (B) fight against |
| (C) welcome cheerfully |
| (D) treat with indifference |

Directions : In Question Nos. 60 to 62, out of the four alternatives choose the one which can be substituted for the given words/sentence.

60. One who lends money at a very high interest

- | | |
|--------------|------------|
| (A) Banker | (B) Usurer |
| (C) Imposter | (D) Former |

61. Incapable of being approached

- | | |
|------------------|------------------|
| (A) Inaccessible | (B) Inadmissible |
| (C) Irresistible | (D) Illegal |

62. One who takes care of a building

- | | |
|-------------|-------------|
| (A) Janitor | (B) Manager |
| (C) Warden | (D) Beadle |

Directions : In Question Nos. 63 & 64, 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.

63. The President shook hands with all the persons on the dais.
 (A) shook hands with all.
 (B) shook hands with each of the persons.
 (C) shook hands with everyone.
 (D) no improvement.
64. The fronds of the coconut tree make a gentle musical note when the wind blows.
 (A) music note
 (B) music sound
 (C) musical sound
 (D) no improvement

Directions : In Question Nos. 65 to 69, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice and mark your answer in the Answer Sheet.

65. I don't like people telling me what to do.
 (A) I don't like it when people are telling me what to do.
 (B) I don't like being told what to do.
 (C) Telling me what to do is what I don't like.
 (D) I don't like people when they tell me what to do.

66. He wasn't given the information he needed.
 (A) Somebody was not given the information he needed.
 (B) The information he needed wasn't given to him.
 (C) He needed the information he wasn't given.
 (D) They didn't give him the information he needed.
67. Bipin was not told about the meeting.
 (A) Somebody did not tell Bipin about the meeting.
 (B) There was nobody who could tell Bipin about the meeting.
 (C) Nobody told Bipin about the meeting.
 (D) The meeting was not told about to Bipin.
68. Have you been shown what to do ?
 (A) Have anybody been shown by you what to do ?
 (B) Have anybody been showing you what to do ?
 (C) Has you been shown what to do ?
 (D) Has anybody shown you what to do ?
69. Aditya saw Dinesh shopping at the mall.
 (A) Dinesh is seen shopping at the mall by Aditya.
 (B) Dinesh was seen shopping at the mall by Aditya.
 (C) Dinesh was being seen shopping at the mall by Aditya.
 (D) Dinesh is being seen shopping at the mall by Aditya.

Directions : In Question Nos. 70 to 74, a sentence has been given in Direct/Indirect. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct and mark your answer in the Answer Sheet.

70. The poor beggar said, "O God, have mercy on my soul".

- (A) The poor beggar prayed to God to have mercy on his soul.
- (B) The poor beggar, invoking God, implored him to have mercy on his soul.
- (C) The poor beggar exclaimed that God, have mercy on his soul.
- (D) The poor beggar told God to have mercy on his soul.

71. Israt said to Irfat, "Let's go to Puri for a change."

- (A) Israt proposed to Irfat to go to Puri for a change.
- (B) Israt suggested to Irfat to go to Puri for a change.
- (C) Israt asked Irfat to go to Puri for a change.
- (D) Israt proposed to Irfat that they should go to Puri for a change.

72. He said to her, "Why didn't you put on the brakes ?

- (A) He asked her why she hadn't put on the brakes.
- (B) He asked her why she didn't put on the brake.
- (C) He asked her that why she hadn't put on the brake.
- (D) He told her that why she hadn't put on the brake.

73. She said to me, "I took breakfast in the morning."

- (A) She told me that she took breakfast in the morning.
- (B) She told me that she had taken breakfast in the morning.
- (C) She told me that she has taken breakfast in the morning.
- (D) She said to me that she was taking breakfast in the morning.

74. John's father reminded him to take his umbrella.

- (A) John's father said, "Remember your umbrella John ?"
- (B) "Here, is your umbrella John," said his father.
- (C) "Are you going to take your umbrella or not ?" said John to his father.
- (D) "Don't forget to take your umbrella, John" said his father.

Directions : In Question Nos. 75 to 80, the 1st and the last sentences/parts of the passage/sentence are numbered 1 and 6. The rest of the passage/sentence is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer and indicate it by blackening the appropriate oval [●] in the Answer Sheet.

75. 1. Science is concerned with finding out how things actually happen.
P. He showed that a light object falls to the ground at the same rate as a heavy object.
Q. It does not mean laying down principles as to how they ought to happen.
R. This did not agree with the views of most learned men of that time.
S. The most famous example of this concerns Galileo's discovery about falling bodies.
6. But Galileo proved his point experimentally by dropping weights from the Leaning Tower of Pisa.
(A) PSQR (B) QSPR
(C) RQPS (D) SQPR
76. 1. After inventing dynamite, Alfred Nobel became a rich man.
P. He created a fund just two weeks before his death.
Q. Alfred did not want to be remembered as the inventor of dynamite.
R. He apprehended its universally destructive power too late.
S. Prizes are given from this fund to people for their enormous contributions to humanity.
6. Nobel prizes for various disciplines are awarded each year on the anniversary of his death.
(A) PQRS (B) RQPS
(C) QPSR (D) SPQR

77. 1. Miss Sullivan led Helen into her room and gave her a doll.
P. Helen was simply making her fingers go in monkey-like imitation.
Q. Miss Sullivan tried to make Helen understand that 'd-o-l-l' applied to both.
R. Miss Sullivan spelled the word 'd-o-l-l' on to Helen's hand.
S. Miss Sullivan put her big rag doll into her lap and also spelled 'd-o-l-l'.
6. Her teacher had been with her several weeks before Helen understood that everything has a name.
(A) SRPQ (B) QPSR
(C) RPSQ (D) PSQR
78. 1. Marie chose to study Physics
P. that investigates the four forces at work
Q. in the universe
R. which is a branch of science
S. both on a large scale, as in the solar system
6. or on a small scale, as in atoms.
(A) RQPS (B) RPQS
(C) PSRQ (D) SPRQ
79. 1. A proposal has been made
P. tourists will continue to visit game parks
Q. to trim the horns of rhinos to discourage poachers
R. and the question is whether
S. to see rhinos once the animals' horns
6. have been trimmed.
(A) RPQS (B) SQPR
(C) QRPS (D) PRSQ
80. 1. The pungent vapour that is released
P. which make our eyes stream and nose run,
Q. contains irritant chemicals
R. when we chop onions
S. eases congestion as well as
6. flushes out virus particles.
(A) RQPS (B) QPRS
(C) SQPR (D) QRPS

Directions : In Question Nos. 81 to 85, in the following passage some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternative and fill in the blanks.

Then he spent the next two hours finding different ways to 81 me: whining, burying his wet head in my lap, pawing at my legs, 82 to my every look or movement. Every time, I 83 up from my work, his deep brown eyes were 84 me and his tail thumped on the floor. So, that night in 1967, Booto, the wild dog from the 85 came into my lonely life.

81. (A) scold (B) thank
(C) threaten (D) receive
82. (A) reacting (B) catching
(C) answering (D) jumping
83. (A) woke (B) looked
(C) shuffled (D) opened
84. (A) with (B) into
(C) by (D) on
85. (A) town (B) village
(C) street (D) forests

Directions : In Question Nos. 86 to 90, you have one passage with 5 questions. Read the passage 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.

The Bureau of Indian Standards (BIS) does not specify any standards for domestic exhaust fans. Therefore, none of the models tested carried the ISI mark. CERS tested the exhaust fans for power leakage, insulation resistance, earthing continuity, electrical input and protection against direct current. All of them were found to conform to the safety requirements for commercial or industrial purpose ventilating fans set by the BIS.

Usually exhaust fans are fitted with an external guard (grill or mesh). Such guards are useful to prevent accidental contact with moving parts of the fan.

The tests revealed that though all the models tested conformed to the safety tests, their air delivery and electricity consumption differed widely and hence, their service value also varied. Consumers should make a conscious decision depending on their need. For small spaces, an exhaust fan with high service value would be best because such a fan will give you sufficient air delivery with low energy cost. But for bigger spaces perhaps you wouldn't like to compromise with the air delivery of the fan, even if it adds a little more to your energy bill.

86. None of the domestic exhaust fans carried the ISI mark because
(A) CERS and not ISI tested them.
(B) ISI has no standards for them.
(C) they pose no danger of power leakage, earthing continuity, electrical input etc.
(D) they are fitted with guards.
87. The service value of the exhaust fans varied because
(A) air delivery differed
(B) electricity consumption differed
(C) they were not fitted with guards
(D) both (A) and (B)
88. The decision of the consumers to buy an exhaust fan would depend on their
(A) liking (B) desire
(C) requirement (D) fancy
89. The installation of exhaust fans with high service value should be
(A) space oriented
(B) bill oriented
(C) delivery-of-air oriented
(D) all of the above
90. 'conform' means
(A) establish the truth
(B) to authenticate
(C) comply with safety requirements
(D) comply with rules or standards

Directions : In Question Nos. 91 to 95, 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 errors, blacken the oval corresponding to (D) in the Answer Sheet.

91. I and Tina will / go to the market /
(A) (B)
in the evening. / No error /
(C) (D)
92. Krishnakali, an early riser
and a nature-lover /
(A)
goes to morning walk at Rabindra
(B)
Sarovar lake / before dawn. /
(C)
No error
(D)
93. As a boy Dhritiman is very obedient,
polite and hard-working /
(A)
but as a student he is /
(B)
always inattentive in study. / No error /
(C) (D)
94. When I fail /
(A)
to solve the problem myself / ,
(B)
I unhesitatingly called for his help. /
(C)
No error
(D)

95. There would have been / a disaster /
(A) (B)
and for your prompt action. /
(C)
No error
(D)

Directions : In Question Nos. 96 to 100, 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.

96. Only patience and fortitude carried him ____ the crisis.
(A) over (B) about
(C) out (D) through
97. Octopuses are mostly shy and ____ harmless to human beings.
(A) generally (B) mainly
(C) completely (D) rarely
98. Come what ____, I shall adhere to my principles.
(A) can (B) may
(C) might (D) will
99. Slow and steady ____ the race.
(A) is winning (B) wins
(C) will win (D) win
100. Night came on and the room ____ dark.
(A) is growing (B) has grown
(C) grew (D) will grow

PART - III

QUANTITATIVE APTITUDE

101. If $(a + b) : (b + c) : (c + a) = 6 : 7 : 8$ and $(a + b + c) = 14$, then the value of c is
 (A) 6 (B) 7
 (C) 8 (D) 14
102. Evaluate

$$\sqrt{20} + \sqrt{12} + \sqrt[3]{729} - \frac{4}{\sqrt{5} - \sqrt{3}} - \sqrt{81}$$

 (A) $\sqrt{2}$ (B) $\sqrt{3}$
 (C) 0 (D) $2\sqrt{2}$
103. A mixture contains alcohol and water in the ratio 4 : 3. If 5 litres of water is added to the mixture, the ratio becomes 4 : 5. The quantity of alcohol in the given mixture is
 (A) 3 litres (B) 4 litres
 (C) 15 litres (D) 10 litres
104. The average of nine consecutive numbers is n . If the next two numbers are also included the new average will
 (A) increase by 2
 (B) remain the same
 (C) increase by 1.5
 (D) increase by 1
105. The simple interest on a sum of money is $\frac{1}{16}$ of the sum. If the number of years is numerically equal to the rate percent per annum, then the rate percent per annum is
 (A) $3\frac{1}{3}$ (B) $6\frac{2}{3}$
 (C) $2\frac{1}{2}$ (D) $7\frac{1}{2}$
106. An article was sold at a profit of 12%. If the cost price would be 10% less and selling price would be ₹ 5.75 more, there would be profit of 30%. Then at what price it should be sold to make a profit of 20%?
 (A) ₹ 115 (B) ₹ 120
 (C) ₹ 138 (D) ₹ 215
107. If the cost price of 12 pens is equal to the selling price of 8 pens, the gain percentage is
 (A) 25% (B) $33\frac{1}{3}\%$
 (C) 50% (D) $66\frac{2}{3}\%$
108. A mobile phone is listed at ₹ 1,500 and a discount of 10% is offered on the list price. What additional discount must be offered to the customer now to bring the net price to ₹ 1,242?
 (A) 10% (B) 8%
 (C) 12% (D) 18%
109. A, B and C entered into a business and their investments ratio was 5 : 4 : 3. After 4 months B invested ₹ 1,000 more and after 8 months C invested ₹ 2,000 more. At the end of one year the profit ratio was 15 : 14 : 11, then the investment of C at the beginning was
 (A) ₹ 3,000 (B) ₹ 6,000
 (C) ₹ 4,500 (D) ₹ 7,500
110. Two trains, each of length 125 metre, are running in parallel tracks in opposite directions. One train is running in a speed 65 km/hour and they cross each other in 6 seconds. The speed of the other train is
 (A) 75 km/hour (B) 85 km/hour
 (C) 95 km/hour (D) 105 km/hour

111. If 4 men or 6 women can do a piece of work in 12 days working 7 hours a day; how many days will it take to complete a work twice as large with 10 men and 3 women working together 8 hours a day ?
 (A) 6 (B) 7
 (C) 8 (D) 10
112. If $x^2 - 3x + 1 = 0$, then the value of $x^5 + \frac{1}{x^5}$ is equal to
 (A) 87 (B) 123
 (C) 135 (D) 201
113. If $a - b = 3$ and $a^3 - b^3 = 117$, then $|a + b|$ is equal to
 (A) 3 (B) 5
 (C) 7 (D) 9
114. If $a + b + c = 15$ and $a^2 + b^2 + c^2 = 83$, then the value of $a^3 + b^3 + c^3 - 3abc$ is
 (A) 200 (B) 180
 (C) 190 (D) 210
115. If the graphs of the equations $3x + 2y = 18$ and $3y - 2x = 1$ intersect at the point (p, q) , then the value of $p + q$ is
 (A) 7 (B) 6
 (C) 5 (D) 4
116. If $x = \frac{4\sqrt{15}}{\sqrt{5} + \sqrt{3}}$, the value of $\frac{x + \sqrt{20}}{x - \sqrt{20}} + \frac{x + \sqrt{12}}{x - \sqrt{12}}$ is
 (A) 1 (B) 2
 (C) $\sqrt{3}$ (D) $\sqrt{5}$
117. The exterior angles obtained on producing the base BC of a triangle ABC in both ways are 120° and 105° , then the vertical $\angle A$ of the triangle is of measure
 (A) 36° (B) 40°
 (C) 45° (D) 55°
118. If AD, BE and CF are medians of $\triangle ABC$, then which one of the following statements is correct ?
 (A) $(AD + BE + CF) < AB + BC + CA$
 (B) $AD + BE + CF > AB + BC + CA$
 (C) $AD + BE + CF = AB + BC + CA$
 (D) $AD + BE + CF = \sqrt{2} (AB + BC + CA)$
119. ABC is an isosceles right angled triangle with $\angle B = 90^\circ$. On the sides AC and AB, two equilateral triangles ACD and ABE have been constructed. The ratio of areas of $\triangle ABE$ and $\triangle ACD$ is
 (A) 1 : 3 (B) 2 : 3
 (C) 1 : 2 (D) $1 : \sqrt{2}$
120. The radii of two concentric circles are 13 cm and 8 cm. AB is a diameter of the bigger circle and BD is a tangent to the smaller circle touching it at D and the bigger circle at E. Point A is joined to D. The length of AD is
 (A) 20 cm (B) 19 cm
 (C) 18 cm (D) 17 cm
121. The radius of two concentric circles are 17 cm and 10 cm. A straight line ABCD intersects the larger circle at the point A and D and intersects the smaller circle at the points B and C. If $BC = 12$ cm, then the length of AD (in cm) is :
 (A) 20 (B) 24
 (C) 30 (D) 34

122. The perimeter of a rhombus is 100 cm and one of its diagonals is 40 cm. Its area (in cm^2) is
(A) 1200 (B) 1000
(C) 600 (D) 500
123. A kite in the shape of a square with a diagonal 32 cm attached to an equilateral triangle of the base 8 cm. Approximately how much paper has been used to make it?
(use $\sqrt{3} = 1.732$)
(A) 539.712 cm^2 (B) 538.721 cm^2
(C) 540.712 cm^2 (D) 539.217 cm^2
124. The radius of cross-section of a solid cylindrical rod of iron is 50 cm. The cylinder is melted down and formed into 6 solid spherical balls of the same radius as that of the cylinder. The length of the rod (in metres) is
(A) 0.8 (B) 2
(C) 3 (D) 4
125. The volume of a hemi-sphere is equal to the volume of a right-circular cylinder whose radius of the base is equal to the radius of the hemisphere. Then the ratio of the height and the radius of the base of the right-circular cylinder is
(A) 2 : 3 (B) 3 : 2
(C) 1 : 3 (D) 1 : 2
126. If the base of a right pyramid is triangle of sides 5 cm, 12 cm, 13 cm and its volume is 330 cm^3 , then its height (in cm) will be
(A) 33 (B) 32
(C) 11 (D) 22
127. If the interior angle of a regular polygon is double the measure of exterior angle, then the number of sides of the polygon is
(A) 6 (B) 8
(C) 10 (D) 12
128. A right prism stands on a base 6 cm equilateral triangle and its volume is $81\sqrt{3} \text{ cm}^3$. The height (in cms) of the prism is
(A) 9 (B) 10
(C) 12 (D) 15
129.
$$\frac{2 \sin 68^\circ}{\cos 22^\circ} - \frac{2 \cot 15^\circ}{5 \tan 75^\circ} - \frac{3 \tan 45^\circ \cdot \tan 20^\circ \cdot \tan 40^\circ \cdot \tan 50^\circ \cdot \tan 70^\circ}{5}$$
 is equal to
(A) -1 (B) 0
(C) 1 (D) 2
130. The value of $\operatorname{cosec}^2 18^\circ - \frac{1}{\cot^2 72^\circ}$ is
(A) $\frac{1}{\sqrt{3}}$ (B) $\frac{\sqrt{2}}{3}$
(C) $\frac{1}{2}$ (D) 1
131. If $\alpha + \beta = 90^\circ$, then the value of $(1 - \sin^2 \alpha)(1 - \cos^2 \alpha) \times (1 + \cot^2 \beta)(1 + \tan^2 \beta)$ is
(A) 1 (B) -1
(C) 0 (D) 2
132. If $\tan \theta - \cot \theta = 0$, find the value of $\sin \theta + \cos \theta$.
(A) 0 (B) 1
(C) $\sqrt{2}$ (D) 2

133. In a division sum, the divisor is 12 times the quotient and 5 times the remainder. If the remainder is 36, then the dividend is

(A) 2706 (B) 2796
(C) 2736 (D) 2826

134. The value of

$$3\frac{1}{2} - \left[2\frac{1}{4} + \left\{ 1\frac{1}{4} - \frac{1}{2} \left(1\frac{1}{2} - \frac{1}{3} - \frac{1}{6} \right) \right\} \right] \text{ is}$$

(A) $\frac{1}{2}$ (B) $2\frac{1}{2}$
(C) $3\frac{1}{2}$ (D) $9\frac{1}{2}$

135. If $\frac{(x - \sqrt{24})(\sqrt{75} + \sqrt{50})}{\sqrt{75} - \sqrt{50}} = 1$, then the value of x is

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

136. The total number of Prime factors in $4^{10} \times 7^3 \times 16^2 \times 11 \times 10^2$ is

(A) 34 (B) 35
(C) 36 (D) 37

137. Out of the numbers 0.3, 0.03, 0.9, 0.09 the number that is nearest to the value of $\sqrt{0.9}$ is

(A) 0.3 (B) 0.03
(C) 0.9 (D) 0.09

138. $\frac{4\frac{2}{7} - \frac{1}{2}}{3\frac{1}{2} + 1\frac{1}{7}} + \frac{1}{2 + \frac{1}{2 + \frac{1}{5 - \frac{1}{5}}}}$ is equal to

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

139. The sum of two numbers is 520. If the bigger number is decreased by 4% and the smaller number is increased by 12%, then the numbers obtained are equal. The smaller number is

(A) 280 (B) 210
(C) 240 (D) 300

140. Arbind spends 75% of his income and saves the rest. His income is increased by 20% and he increases his expenditure by 10%. Then the increase in savings in percentage is

(A) 55% (B) 52%
(C) 50% (D) 48%

141. Two alloys are both made up of copper and tin. The ratio of copper and tin in the first alloy is 1 : 3 and in the second alloy is 2 : 5. In what ratio should the two alloys be mixed, to obtain a new alloy in which the ratio of tin and copper be 8 : 3 ?

(A) 3 : 5 (B) 4 : 7
(C) 3 : 8 (D) 5 : 11

142. The elevation of the top of a tower from a point on the ground is 45° . On travelling 60 m from the point towards the tower, the elevation of the top becomes 60° . The height of the tower, in metres, is

- (A) 30 (B) $30(3 - \sqrt{3})$
(C) $30(3 + \sqrt{3})$ (D) $30\sqrt{3}$

143. The value of

$$\frac{(a-b)^2}{(b-c)(c-a)} + \frac{(b-c)^2}{(a-b)(c-a)} + \frac{(a-c)^2}{(a-b)(b-c)} \text{ where } a \neq b \neq c, \text{ is}$$

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

144. The product of two numbers is 2160 and their HCF is 12. Number of such possible pairs is

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

145. If two pipes function simultaneously, a tank is filled in 12 hours. One pipe fills the tank 10 hours faster than the other. How many hours does the faster pipe alone take to fill the tank?

- (A) 20 (B) 18
(C) 15 (D) 12

146. Two right circular cones of equal heights of radii of bases 3 cm and 4 cm are melted together and made to a solid sphere of radius 5 cm. The height of a cone is

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

Direction : Study the following table and answer Question Nos. 147 and 148.

Year	Percentage of Candidates Qualified under discipline					Total Number of Candidates qualified
	Arts	Science	Commerce	Agriculture	Engineering	
2006	24	40	19	09	08	780
2007	15	42	18	13	12	650
2008	20	45	20	08	07	500
2009	15	45	16	14	10	620
2010	19	35	15	19	12	900
2011	18	42	14	12	14	850

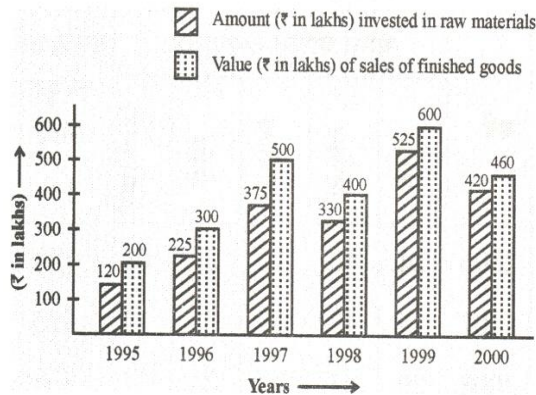
147. The decrease in the number of candidates qualified under Arts discipline from 2010 to 2011 was

- (A) 11 (B) 18
(C) 42 (D) 69

148. The difference in the average number of candidates qualified in Science discipline per year from 2006 to 2008 and the average number of candidates qualified in the same discipline from 2009 to 2011 was

- (A) 47 (B) 57
(C) 74 (D) 141

Direction : Study the following graph and answer Q. No. 149 & 150.



149. In which year, there has been a maximum percentage increase in the amount invested in raw materials as compared to the previous year ?

- (A) 1996 (B) 1997
(C) 1998 (D) 1999

150. What was the difference between the average amount invested in raw materials during the given period and the average value of sales of finished goods during this period ?

- (A) ₹ 62.5 lakhs (B) ₹ 68.5 lakhs
(C) ₹ 71.5 lakhs (D) ₹ 77.5 lakhs

For Visually Handicapped Candidates only

147. A and B's income are in the ratio 3 : 2 and their expenses are in the ratio 5 : 3. If each of them saves ₹ 2000, then the income of A is

- (A) ₹ 8,000 (B) ₹ 10,000
(C) ₹ 12,000 (D) ₹ 15,000

148. A and B have monthly incomes in the ratio 6 : 5 and their monthly expenditures in the ratio 4 : 3. If they save ₹ 1,600 and ₹ 1,800 respectively per month, then the monthly income of B is

- (A) ₹ 7,200 (B) ₹ 5,800
(C) ₹ 6,400 (D) ₹ 6,000

149. Ratio of incomes of A and B is 4 : 5 and ratio of their expenditure is 3 : 4. If each A and B save ₹ 1,500, then the income of B is

- (A) ₹ 6,000 (B) ₹ 7,500
(C) ₹ 5,500 (D) ₹ 5,000

150. The ratio of monthly incomes of A and B is 3 : 4 and the ratio of their monthly expenditure is 2 : 3. If each of them saves ₹ 12,000 per month, then monthly income of A is

- (A) ₹ 24,000 (B) ₹ 36,000
(C) ₹ 48,000 (D) ₹ 60,000

PART – IV
GENERAL AWARENESS

151. The Market Regulation system was introduced by
(A) Muhammad-Bin-Tughlaq
(B) Illtutmish
(C) Ala-ud-din Khilji
(D) Ghias-ud-din
152. Which of the following Mughal Emperors wrote their own autobiographies ?
(A) Shah Alam and Farukh Siyar
(B) Babur and Jahangir
(C) Jahangir and Shah Jahan
(D) Akbar and Aurangzeb
153. For the annexation of which Indian Kingdom, the "Doctrine of Lapse" was not followed ?
(A) Satara (B) Nagpur
(C) Jhansi (D) Punjab
154. During the Second World War, which one of the following countries was not one of the three Axis Powers, which fought against the Allied Powers ?
(A) Germany (B) Italy
(C) China (D) Japan
155. The highest mountain peak in Peninsular India is
(A) Anaimudi (B) Dodabetta
(C) Mahendragiri (D) Nilgiris
156. Breaking down of rock in situ is known as
(A) Erosion (B) Weathering
(C) Mass wasting (D) Degradation
157. The longest river of Europe is
(A) Rhine (B) Rhone
(C) Danube (D) Volga
158. Which of the following is an example of Plutonic Igneous Rock ?
(A) Basalt (B) Granite
(C) Slate (D) Dolomite
159. The Coast of Norway is an example of
(A) Dalmatian Coast
(B) Fiord Coast
(C) Ria Coast
(D) Emerged Coast
160. Name the tiny pores present on the surface of leaves in plants.
(A) Pits (B) Stomata
(C) Trichomes (D) Hydathodes
161. Rinderpest disease of Cattle is caused by
(A) Insects (B) Bacteria
(C) Virus (D) Protozoa
162. The plant that behave as a root parasite is
(A) Ficus (B) Santalum
(C) Cuscuta (D) Euphorbia
163. The largest White Blood Corpuscle is
(A) Lymphocyte (B) Monocyte
(C) Thrombocyte (D) Erythrocyte
164. Which of the following does not act both as an exocrine gland and as an endocrine gland ?
(A) Pituitary (B) Pancreas
(C) Testis (D) Ovary
165. Match correctly the Nutrient deficiency given in List-I with the diseases caused by the deficiency given in List-II.
- | List – I | | List – II | |
|-----------------------------|-------------------------|------------------|--|
| (a) Iodine | (i) Microcytic anaemia | | |
| (b) Iron | (ii) Pernicious anaemia | | |
| (c) Niacin | (iii) Goitre | | |
| (d) Vitamin B ₁₂ | (iv) Pellagia | | |
| (a) (b) (c) (d) | | | |
| (A) (iv) (ii) (i) (iii) | | | |
| (B) (i) (iii) (ii) (iv) | | | |
| (C) (ii) (iv) (iii) (i) | | | |
| (D) (iii) (i) (iv) (ii) | | | |

166. Dioptre is the unit of
(A) power of a lens
(B) focal length of a lens
(C) light intensity
(D) sound intensity
167. When a stone is thrown in the calm water of a pond the waves produced on the surface of water in the pond are
(A) longitudinal
(B) transverse
(C) both longitudinal and transverse
(D) waves are not produced
168. In a filament type light bulb most of the electric power consumed appears as
(A) visible light
(B) infra-red rays
(C) ultra-violet rays
(D) fluorescent light
169. A man standing on a edge of a cliff throws a stone vertically upwards with a certain speed. He then throws another stone downwards with the same speed. Find the ratio of the speeds of the two stones when they hit the ground.
(A) 1 : 1
(B) 1 : 2
(C) 1 : 4
(D) Cannot be found from the given information.
170. Who introduced the concept of "Stored Program" ?
(A) John Von Neumann
(B) Charles Babbage
(C) Blaise Pascal
(D) John Mauchly
171. Which of the following is an Disk Operating System (DOS) command ?
(A) LIST (B) CHANGE
(C) DUPLICATE (D) FORMAT
172. A type of internet account, in which the computer is not connected directly to the net.
(A) Shell Account
(B) Kernel Account
(C) Server Account
(D) TCP/IP Account
173. The gas used to extinguish fire is
(A) Neon
(B) Nitrogen
(C) Carbon dioxide
(D) Carbon monoxide
174. The non-metal found in the liquid state is
(A) bromine (B) nitrogen
(C) fluorine (D) chlorine
175. Ionisation energy of nitrogen is greater than that of oxygen because nitrogen has
(A) high bond dissociation energy
(B) smaller atomic radius
(C) stable half filled 2p sub level
(D) high nuclear charge
176. Sulphuric acid is
(A) monobasic (B) dibasic
(C) tribasic (D) tetrabasic
177. Which one of the following group of gases contribute to the "Green House Effect" ?
(A) Carbon dioxide and Methane
(B) Ammonia and Ozone
(C) Carbon monoxide and Sulphur dioxide
(D) Carbon tetrafluoride and Nitrous oxide

178. Which of the following series is true about energy flow in an ecosystem ?
 (A) Producers → Decomposers → Consumers.
 (B) Decomposers → Consumers → Producers.
 (C) Producers → Consumers → Decomposers.
 (D) Consumers → Producers → Decomposers.
179. Which of the following three R's are regarded as environment friendly ?
 (A) Reduce, Rebuild, Restrict.
 (B) Random, Reduce, Recall.
 (C) Read, Register, Recall.
 (D) Reduce, Reuse, Recycle.
180. Who is the Union Minister of Petroleum and Natural Gas ?
 (A) S. Jaipal Reddy
 (B) M. Veerappa Moily
 (C) Vayalar Ravi
 (D) Ajit Singh
181. In which event in the Asian Athletic Championships, 2013 Vikas Gowda won a gold medal ?
 (A) Long Jump
 (B) 400 mts. Running Race
 (C) Shot Put
 (D) Discus throw
182. Which one of the following annual cultural events is not held in Madhya Pradesh ?
 (A) Marwar Festival
 (B) Tansen Music Festival
 (C) Ustad Allaaddin Festival
 (D) Kalidas Samman
183. Dr. Ravuri Bharadwaja has been chosen for the Jnanpith Award, 2012 for his outstanding literary contribution in
 (A) Tamil (B) Telugu
 (C) Kannada (D) Malayalam
184. Which one of the following literary works was not written by R.K. Narayan ?
 (A) Malgudi Days
 (B) Swami and his friends
 (C) Guide
 (D) Gardner
185. Kisan Diwas (Farmer's Day) is observed on the
 (A) 1st July
 (B) 4th December
 (C) 18th December
 (D) 23rd December
186. The Union territory of Puducherry does not have a common boundary with
 (A) Andhra Pradesh (B) Kerala
 (C) Karnataka (D) Tamil Nadu
187. Which one of the following countries and their capitals are wrongly paired ?
 (A) Switzerland – Geneva
 (B) Austria – Vienna
 (C) Denmark – Copenhagen
 (D) Finland – Helsinki
188. Which one of the following Grand Slam titles is also known as "Roland Garros" title ?
 (A) Australian Open
 (B) French Open
 (C) Wimbledon
 (D) U.S. Open
189. Which one of the following films directed by Satyajit Ray is based on the story Nastaneer written by Rabindranath Tagore ?
 (A) Aparajita
 (B) Charulata
 (C) Pathar Panchali
 (D) Apur Sansar

190. Which Indian industry is employing large number of workers ?
 (A) Iron & Steel Industry
 (B) Textile Industry
 (C) Jute Industry
 (D) Sugar Industry
191. Cross demand expresses the functional relationship between
 (A) demand and prices of related commodities.
 (B) demand and income.
 (C) demand and prices.
 (D) demand and supply.
192. Third stage of Law of Variable Proportion is called
 (A) negative returns
 (B) positive returns
 (C) constant returns
 (D) increasing returns
193. Elasticity of demand with respect to price is
 (A) $\text{elasticity} = \frac{\% \text{ change in demand}}{\% \text{ change in price}}$
 (B) $\text{elasticity} = \frac{\% \text{ change in price}}{\% \text{ change in demand}}$
 (C) $\text{elasticity} = \frac{\% \text{ change in demand}}{\% \text{ change in supply}}$
 (D) $\text{elasticity} = \frac{\% \text{ change in supply}}{\% \text{ change in price}}$
194. The incomes of Indians working abroad are a part of
 (A) domestic income of India
 (B) income earned from Abroad
 (C) net domestic product of India
 (D) gross domestic product of India
195. How many members are nominated by the President to Rajya Sabha ?
 (A) 2 (B) 12
 (C) 15 (D) 20
196. The Chairman of the Public Accounts Committee of the Parliament is appointed by
 (A) Speaker of Lok Sabha
 (B) Prime Minister of India
 (C) President of India
 (D) Chairman of Rajya Sabha
197. In which House, is the Presiding Officer, not a member of that House ?
 (A) Lok Sabha
 (B) Rajya Sabha
 (C) Vidhan Sabha
 (D) Vidhan Parishad
198. To which category right to vote belongs ?
 (A) Human Rights
 (B) Civil Rights
 (C) Natural Rights
 (D) Political Rights
199. "Residuary powers" under the Indian Constitution means
 (A) the powers relating to International Affairs.
 (B) the powers relating to Internal Emergency.
 (C) the powers, which can be exercised both by the Union Government and the States.
 (D) the powers, which have not been specifically enumerated in the Union List, State List and Concurrent List.
200. Which dynasty immediately succeeded the Maurya dynasty and ruled Magadha Kingdom ?
 (A) Satavahana (B) Sunga
 (C) Nanda (D) Kanva

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