

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

CG 2013

HP -

1043653

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

- 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)
- In questions set bilingually in English and Hindi, in case of discrepancy, the English version will prevail.
- All questions are compulsory and carry equal marks.
- The paper carries negative marking. 0.25 marks will be deducted for each wrong answer.
- Before you start to answer the questions you must check up this Booklet and ensure that it contains all the pages (1-40) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.
- You will be supplied the Answer-Sheet separately by the Invigilator. You must complete and code the details of Name, Roll Number, Ticket Number and Test Form Number on Side-I of the Answer-Sheet carefully. You must also put your signature and Left-Hand thumb impression on the Answer-Sheet at the prescribed place before you actually start answering the questions. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark. (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.)
- Answers must be shown by completely blackening the corresponding ovals on Side-II of the Answer-Sheet against the relevant question number by Black/Blue Ball Point Pen only. Answers which are not shown by Black/Blue Ball-point Pen will not be awarded any mark.
- A machine will read the coded information in the OMR Answer-Sheet. In case the information is incomplete or different from the information given in the application form, such candidate will be awarded 'ZERO' mark.
- The Answer-Sheet must be handed over to the Invigilator before you leave the Examination-Hall.
- Failure to comply with any of the above instructions will render a candidate liable to such action / penalty as may be deemed fit.
- The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 40), which you should read carefully before actually answering the questions.
- Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- In lieu of Question Nos. 43 to 50 and 147 to 150 relating to figural portions, alternate questions have been provided to be attempted by V.H. Candidates only.
- No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions.
- "Mobile phones and wireless communication devices are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them or 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."

- 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 अभिरुचि (50 प्रश्न)  
भाग-IV : सामान्य जानकारी (50 प्रश्न)
- अंग्रेजी और हिन्दी भाषा में तैयार किए गए द्विभाषी प्रश्नों में कोई विसंगति होने की स्थिति में अंग्रेजी विवरण मान्य होगा।
- सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
- प्रश्न पत्र में नकारात्मक अंकन होगा। हर गलत उत्तर के लिए 0.25 अंक काटा जाएगा।
- प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जाँच करें कि इसमें 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।
- 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।)
- 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।
- 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।
- परीक्षा-भवन छोड़ने से पहले परीक्षार्थी को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए।
- ऊपर के अनुदेशों में से किसी एक का भी पालन न करने पर उम्मीदवार पर विवेकानुसार कार्यवाही की जा सकती है या दण्ड दिया जा सकता है।
- विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पृष्ठ (पृष्ठ संख्या 40) में छपे हुए निर्देशों में दी गई है; इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें।
- प्रश्नों के उत्तर जितनी जल्दी हो सके तथा ध्यानपूर्वक दें। कुछ प्रश्न आसान तथा कुछ कठिन हैं। किसी एक प्रश्न पर बहुत अधिक समय न लगाएँ।
- आकृति से सम्बन्धित प्रश्न संख्या 43 से 50 और 147 से 150 के बदले में केवल दृष्टिबाधित उम्मीदवारों द्वारा हल किए जाने के लिए वैकल्पिक प्रश्न दिए गए हैं।
- कोई रफ कार्य उत्तर-पत्रिका पर नहीं करना है। रफ कार्य के लिए स्थान प्रश्नों के नीचे दिया गया है।
- "परीक्षा हॉल/कमरा 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 स्विच ऑफ 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

CG 2013



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**PART - I**  
**GENERAL INTELLIGENCE**

1. Which one of the given responses would be a meaningful order of the following ?  
 1. Twilight      2. Dawn  
 3. Noon      4. Night  
 (A) 2, 1, 3, 4      (B) 2, 3, 1, 4  
 (C) 1, 2, 3, 4      (D) 1, 3, 2, 4
2. Arrange the following words as per order in the dictionary :  
 1. Aqueous      2. Aquarium  
 3. Aquiline      4. Aquatic  
 (A) 4, 3, 2, 1      (B) 1, 2, 3, 4  
 (C) 2, 4, 1, 3      (D) 3, 1, 4, 2
3. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?  
 mc \_ m \_ a \_ ca \_ ca \_ c \_ mc  
 (A) a c m m m a      (B) c a m c a m  
 (C) a a a c m m      (D) a c m m m c
- Directions : In Question Nos. 4 to 6, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
4. AMN, BOP, CQR, ?  
 (A) BAS      (B) DST  
 (C) EQP      (D) FRS
5. 5, 6, 9, 14, 21, ?  
 (A) 28      (B) 30  
 (C) 31      (D) 29
6. 4, 11, 30, 67, 128, ?  
 (A) 219      (B) 228  
 (C) 231      (D) 237
7. If the day before yesterday was Wednesday, when will Sunday be ?  
 (A) Today  
 (B) Tomorrow  
 (C) Day after tomorrow  
 (D) Two days after tomorrow
8. Lakshmi is elder than Meenu. Leela is elder than Meenu but younger than Lakshmi. Latha is younger than both Meenu and Hari but Hari is younger than Meenu. Who is the youngest ?  
 (A) Lakshmi      (B) Meenu  
 (C) Leela      (D) Latha
9. Nikhil is 8 years younger than his brother Rohan. How old will Rohan be when he is twice as old as Nikhil ?  
 (A) 4      (B) 6      (C) 8      (D) 16
10. In a row of letters, a letter is 5<sup>th</sup> from left end and 12<sup>th</sup> from the right end. How many letters are there in a row ?  
 (A) 15      (B) 16      (C) 17      (D) 18
11. Pointing to a lady Simon said, "She is the daughter of the only sister of my father". How is lady related to Simon ?  
 (A) Mother  
 (B) Aunt  
 (C) Sister  
 (D) Cousin sister
12. If A=1, ACT = 24, then FAT = ?  
 (A) 26      (B) 25      (C) 27      (D) 24

SPACE FOR ROUGH WORK

13. If 'GLOSSORY' is coded as 97533562 and 'GEOGRAPHY' = 915968402, then 'GEOLOGY' can be coded as 9157592  
 (A) 915692 (B) 9157592  
 (C) 9057592 (D) 9157591

14. If 'NEUROTIC' can be written as 'TICRONEU' then how can 'PSYCHOTIC' be written?  
 (A) TICOCHPSY  
 (B) TICCHOPSY  
 (C) TICCOHPSY  
 (D) TICHCOPSY

15. 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 number-code for the given set of alphabets.

C W E A Z X J Y K L  
 3 9 5 7 4 8 1 0 2 6  
 J W X C L Z

- (A) 198364 (B) 198264  
 (C) 198354 (D) 197354
16. From the given alternatives select the word which can be formed using the letters given in the word.  
 PREPARATION  
 (A) PAMPER (B) REPEAT  
 (C) PARTITION (D) PARROT

17. From the given alternatives select the word which cannot be formed using the letters of the given word.

INTERVENTION

- (A) ENTER  
 (B) INTENTION  
 (C) INVENTION  
 (D) ENTERTAIN

**Directions :** In Question Nos. 18 & 19, select the missing number from the given responses.

18.  $\begin{matrix} 2 & 24 & 48 \\ 3 & 9 & 27 \\ 4 & ? & 40 \end{matrix}$   
 (A) 10 (B) 16 (C) 12 (D) 32

19.  $\begin{matrix} 81 & 36 & 25 \\ 49 & 100 & 36 \\ 9 & 64 & 16 \\ 139 & 200 & ? \end{matrix}$   
 (A) 107 (B) 77  
 (C) 27 (D) 50

**Directions :** In Question Nos. 20 & 21, some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

20.  $4 \times 6 \times 9 = 694$ ,  $5 \times 3 \times 2 = 325$ ,  
 $7 \times 8 \times 2 = ?$   
 (A) 729 (B) 872  
 (C) 827 (D) 279

21. If  $2463 = 36$  and  
 $5552 = 30$ , then  
 $6732 = ?$   
 (A) 32 (B) 36 (C) 34 (D) 39

SPACE FOR ROUGH WORK



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

$$5 * 6 * 5 * 8 * 14$$

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

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

23. If  $-$  mean  $\times$ ,  $\times$  means  $+$ ,  $+$  means  $\div$  and  $\div$  means  $-$ , then

$$40 \times 12 + 3 - 6 \div 60 = ?$$

(A) 44 (B) 16

(C) 7.95 (D) 4

24. After starting from a point, A walks 3 km towards East, then turning to his left he moves 3 km. After this he again turns left and moves 3 km. In which direction is 'A' from his starting point?

(A) North (B) East

(C) West (D) South

25. Ram goes 15 meters North then turns right and walks 20 meters, then again turns right and walks 10 meters, then again turns right and walks 20 meters. How far is he from his original position?

(A) 5 (B) 10

(C) 15 (D) 20

**Directions :** In Question Nos. 26 and 27, two statements are given followed by two conclusions I and II. You have to consider the statements/inferences 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.

26. **Statements :** (i) Some chairs are made up of wood.

(ii) Some tables are made up of wood.

**Inferences (I) :** All wooden things are either chairs or tables.

(II) : Some chairs are tables.

- (A) Only inference I follows.  
(B) Only inference II follows.  
(C) Both inferences I and II follow.  
(D) None of the inference follows.

27. **Statements :** (i) For protection of Indian museums Central Govt. is responsible.

(ii) Victoria Memorial Hall is national property.

**Conclusions :** (I) Indian museum is national property.

(II) Historical property of nation is protected by the Central Government.

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

SPACE FOR ROUGH WORK

**Directions :** In Question Nos. 28 to 34, select the related words/letters/number from the given alternatives.

28. Cobbler : Leather :: Carpenter : ?

- (A) Furniture (B) Wood  
(C) Hammer (D) Chair

29. Foot : ? :: Hand : Wrist

- (A) Length (B) Shoe  
(C) Ankle (D) Leg

30. Chair : Wood :: ?

- (A) Book : Print  
(B) Mirror : Glass  
(C) Plate : Food  
(D) Purse : Money

31. EDUCATION : NOITACUDE :: INTELLIGENCE : ?

- (A) ECENGILLTEIN  
(B) ECNGEILLTENI  
(C) ECNEGILLETNI  
(D) ECNEGILLTENI

32. AZCX : BYDW :: HQJO : ?

- (A) GREP (B) IPKM  
(C) IPKN (D) GRJP

33. 08 : 66 :: ? : 38

- (A) 2 (B) 6 (C) 12 (D) 19

34. 32 : 21 :: 35 : ?

- (A) 51 (B) 53 (C) 32 (D) 26

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

35. (A) Barter (B) Purchase  
(C) Sale (D) Borrow

36. (A) Flag : Flagship  
(B) Court : Courtship  
(C) War : Worship  
(D) Friend : Friendship

37. (A) BDFH (B) MOQS  
(C) SUWY (D) TVZE

38. (A)  $8\frac{2}{15} - 15$  (B)  $25\frac{1}{21} - 36$   
(C)  $49\frac{4}{15} - 64$  (D)  $81\frac{1}{21} - 100$

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

(13 : 20 : 27)

- (A) (3 : 11 : 18)  
(B) (18 : 25 : 32)  
(C) (18 : 27 : 72)  
(D) (7 : 14 : 28)

40. How many Ms occur in the following series such that it is preceded by W and followed by V ?

X U V M R S T M W N V M W O P  
M W U V M W A C W M V H P N  
V W M W T U N

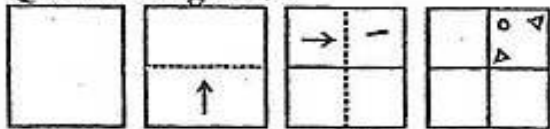
- (A) 3 (B) 2 (C) 1 (D) 5

SPACE FOR ROUGH WORK

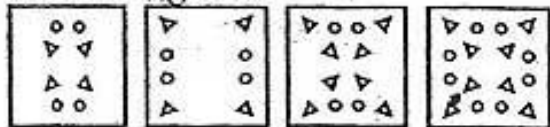


49. A piece of paper is folded and cut/punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?

Question Figures :



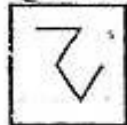
Answer Figures :



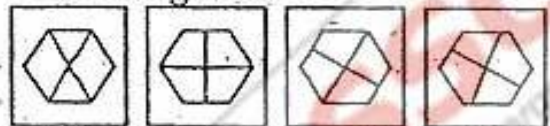
(A) (B) (C) (D)

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

Question Figure :



Answer Figures :



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

### FOR VISUALLY HANDICAPPED CANDIDATES ONLY

43. Find out the wrong number in the given series from the given alternatives.  
196, 169, 144, 121, 101  
(A) 101 (B) 121 (C) 169 (D) 196
44. A frog is at the bottom of a 20 feet well. Each day he jumps 3 feet and slips back two. At that rate, when will the frog reach the top of the well?  
(A) 17<sup>th</sup> Day (B) 18<sup>th</sup> Day  
(C) 20<sup>th</sup> Day (D) 21<sup>st</sup> Day

45. If '□' means '+', '□' means '×', '○' means '-', '△' means '÷', then  
 $15 \square 5 \square 4 \bigcirc 16 \triangle 8 = ?$   
(A) 12 (B) 16 (C) 28 (D) 33

46. In a peculiar mathematical operation, before any operations are done, the numbers are changed as per following rule :

1, 3, 5, 7, 9 → changed to 2

2, 4, 6, 8 → changed to 0

0 → changed to 1

Solve the following equation :

$$4792 + 6785 - 4071 - 968 = ?$$

(A) 122 (B) 100 (C) 211 (D) 200

47. Anil is fifteenth from both ends of a row of boys. How many boys are there in the row?

(A) 15 (B) 16 (C) 30 (D) 29

48. If the difference between  $\frac{3}{8}$ <sup>th</sup> and  $\frac{1}{3}$ <sup>rd</sup>

of a number is 6, then the number is

(A) 240 (B) 120

(C) 96 (D) 144

49. In the following number series, how many 9's are followed by an odd number and preceded by an even number?

4713891694395432971954821495178

(A) 2 (B) 3

(C) 4 (D) 5

50. How many Tuesdays are possible if the last day of the month (excluding February) is Wednesday?

(A) 3 (B) 4

(C) 5 (D) 6

SPACE FOR ROUGH WORK

**PART - II**  
**ENGLISH LANGUAGE**

**Directions :** In Question Nos. 51 and 52, 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.

51. (A) Adalosent (B) Adolascent  
(C) Adolescent (D) Adaloscent
52. (A) Sovenir (B) Souvenir  
(C) Suvenir (D) Suvenior

**Directions :** In Question Nos. 53 to 55, 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.

53. If you want to solve the problem for ever you must take the bull by the horns.  
(A) pull the bull's horns.  
(B) face a difficulty or danger boldly.  
(C) run away from a difficulty or danger.  
(D) face a difficulty or danger confidently.
54. Rajib washed his hands of the matter long ago.  
(A) overcame the difficulties  
(B) refused to accept responsibility for  
(C) took the responsibility  
(D) refused to change the decision
55. All the neighbours gave her the cold shoulder because she ill-treated her daughter-in-law.  
(A) showed intentional unfriendliness to her company  
(B) felt her shoulder was cold.  
(C) showed dislike for her company.  
(D) showed liking for her company.

**Directions :** In Question Nos. 56 to 58, out of the four alternatives choose the one which can be substituted for the given words/sentence.

56. A person who runs away from justice or the law  
(A) Refugee (B) Martyr  
(C) Fugitive (D) Recluse
57. A place where bees are kept  
(A) Aviary (B) Apiary  
(C) Granary (D) Dispensary
58. A hater of women  
(A) Bigamist  
(B) Misogynist  
(C) Misanthrope  
(D) Polygynist

**Directions :** In Question Nos. 59 and 60, 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.

59. The criminal was ordered to be hanged to death.  
(A) hung to death  
(B) hanged till death  
(C) hung till death  
(D) no improvement
60. The expert was very interesting in this candidate.  
(A) was having interest  
(B) was very interested  
(C) is having interest  
(D) no improvement



**Directions :** In Question Nos. 61 to 65, 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.

61. I took care of his dog.  
 (A) His dog was taken care by me.  
 (B) His dog is taken care by me.  
 (C) His dog is taken care of by me.  
 (D) His dog was taken care of by me.
62. The washerman will return the clothes in the evening.  
 (A) The clothes will have to be returned by the washerman in the evening.  
 (B) The clothes will be returned by the washerman in the evening.  
 (C) The clothes will return by the washerman in the evening.  
 (D) In the evening the clothes will have been returned by the washerman.
63. He picked up the telephone and dialled the police number.  
 (A) The telephone was being picked up and the police number dialled.  
 (B) The telephone was picked up and the police number dialled.  
 (C) The telephone had been picked up and the police number dialled.  
 (D) The telephone has been picked up and the police number dialled.
64. An i-pod has been bought by Anubhav's mother.  
 (A) Anubhav's mother was engaged in buying an i-pod.  
 (B) Anubhav's mother had bought an i-pod.  
 (C) Anubhav's mother has been buying an i-pod.  
 (D) Anubhav's mother has bought an i-pod.

65. Some girls were cleaning their dormitories.  
 (A) The dormitories were cleaned by some girls.  
 (B) The dormitories will have been cleaned by some girls.  
 (C) The dormitories were being cleaned by some girls.  
 (D) The dormitories are being cleaned by some girls.

**Directions :** In Question Nos. 66 to 70, 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.

66. He swore in the name of God that he was ignorant of the matter.  
 (A) He said, "I'm ignorant by God!"  
 (B) He declared, "God knows I was ignorant of the matter."  
 (C) He said, "By God ! I'm ignorant of the matter."  
 (D) He said he was ignorant of God.
67. He proposed to his companions that they should not miss that chance to see the last show.  
 (A) He said to his companions, 'Let us not to miss the chance to see the last show.'  
 (B) He said to his companions, 'Let us not miss that chance to see the last show.'  
 (C) He said to his companions, 'We should not miss that chance to see the last show.'  
 (D) He said to his companions, 'Let us not miss the chance to see the last show.'



68. "Bring me an elephant with one golden tusk," the witch told her minion.

- (A) The witch requested her minion to bring her an elephant with one golden tusk.
- (B) The witch told her minion to bring her the elephant with one golden tusk.
- (C) The witch ordered her minion to bring her an elephant with one golden tusk.
- (D) The witch advised her minion to bring her an elephant with one golden tusk.

69. "How much will you pay for this cow?" Jack asked the strange man.

- (A) Jack asked the strange man how much he would pay for that cow.
- (B) Jack asked the strange man how much would he pay for that cow.
- (C) Jack asked the strange man how much would he pay for this cow.
- (D) Jack asked the strange man how much he will pay for that cow.

70. The teacher said, "Water boils at 100 °C."

- (A) The teacher told water boiled at 100 °C.
- (B) The teacher said that water boiled at 100 °C.
- (C) The teacher said that water boils at 100 °C.
- (D) The teacher told that water boiled at 100 °C.

**Directions :** In Question Nos. 71 to 76, the 1<sup>st</sup> 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.

71. 1. Six robbers entered a Nationalised bank today at 9.50 a.m.

P. One group kept an eye on the customers.

Q. The assistant manager was forced to unlock the vault.

R. The other group held the Manager at gun point.

S. They cut off the telephone lines and deactivated the burglar alarm.

6. The whole operation was over in 20 minutes.

(A) SPRQ (B) PSRQ

(C) PQSR (D) QPRS

72. 1. AIDS is an incurable disease which affects the resistance power of the body.

P. People succumb within two years and often die inspite of any treatment.

Q. AIDS is caused by a virus named HIV.

R. In such a condition the body is totally defenseless against all kinds of infection.

S. HIV destroys the white blood cells which fight the bacterial virus.

6. Thorough research is going on throughout the world for the prevention and cure of AIDS.

(A) QPRS (B) QSRP

(C) RQSP (D) SPQR



73. 1. Books are the best company.  
 P. Through books we even see them as if they are really alive.  
 Q. They also give us the best society.  
 R. We hear what such great men said or did.  
 S. They help us in establishing contact with many great men.  
 6. As we read, we share great thoughts with great men.  
 (A) PQSR  
 (B) QRSP  
 (C) QSRP  
 (D) SPQR

74. 1. One of the greatest advances  
 P. has been the invention of computers  
 Q. in modern technology  
 R. in industry, administration and education,  
 S. which are widely used  
 6. and in almost every sphere of human life.  
 (A) PQRS  
 (B) QPSR  
 (C) QPRS  
 (D) SPQR

75. 1. The amount of oxygen  
 P. to meet the increasing demands  
 Q. due to indiscriminate deforestation  
 R. is being diminished day by day  
 S. which is released from the plant kingdom  
 6. of the human population.  
 (A) PQSP  
 (B) PSRQ  
 (C) RPQS  
 (D) SRQP

76. 1. A patient accusing a doctor  
 P. of malpractice will find it difficult  
 Q. without another doctor's testimony  
 R. to prove damage  
 S. or even file a case in the court  
 6. about proper medical procedures  
 (A) RPQS  
 (B) SQPR  
 (C) QRPS  
 (D) PRSQ

**Directions :** In Question Nos. 77 to 81, 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 alternatives and fill in the blanks :

In these days of cable television the radio has again become popular. As in the days before the 77 of television, people switch on their radios first thing in the morning. FM channels of every 78 can be heard broadcasting news and songs of every 79. More than anything else, people prefer to listen 80 which bring a refreshing change to the 81 routine of their everyday lives.

77. (A) advent (B) appearance  
 (C) birth (D) genesis  
 78. (A) range (B) variety  
 (C) frequency (D) category  
 79. (A) state (B) language  
 (C) description (D) kind  
 80. (A) into the songs  
 (B) from the songs  
 (C) the songs  
 (D) to the songs  
 81. (A) packed (B) monotonous  
 (C) exciting (D) light



**Directions :** In Question Nos. 82 to 86, you have brief passage with 5 questions following the passage. 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.

Bringing up the baby is now a science and fine art ! Most of the maternal grandparents would agree with this statement. My mother lost fifteen kilos in six months when my son was born and I gained that as much. Both ways it was because of the anxiety and shared responsibility. My colleagues welcome retirement when their daughter is ready to deliver or had just delivered. They most often befriend young experienced mothers and spend long counselling sessions with them collecting tips on how to tackle a crisis.

It is a funny sight to see grey haired women browse "Bringing up Baby" books at the local book store. One tends to think what they did with their own off springs. Ask them and pat comes the reply "it was so easy then. They grew up on their own". The mother may wear many hats at the same time. But to her or her parents, the mind boggling thing for the first few years is diaper changes, circadian rhythm and continual feeding. At home social life is taboo. Phone calls give cause for irritation, music becomes noise, friends and relatives become total strangers, the domestic help a spirit of mercy and the pediatrician a fairy godmother. Raising a kid is akin to a guerilla warfare and if you hear a woman say that her baby "is beautiful and perfect and an angel all the time" then she is the grandma.

82. What is difficult for maternal grandparents ?  
 (A) Raising grandchildren  
 (B) Feeding children  
 (C) Giving birth to grandchildren  
 (D) Bringing up babies
83. How did the mother and the daughter share the same anxiety ?  
 (A) Both were uneasy with the new born  
 (B) Both feared babies  
 (C) Both were concerned about raising the baby  
 (D) Both were nervous about shared responsibility
84. Why do female colleagues welcome retirement ?  
 (A) They get lot of free time.  
 (B) They become free to attend to household duties.  
 (C) They can be of help to their daughters and their offspring.  
 (D) They can cook good food for their children and grandchildren.
85. 'To wear many hats' means  
 (A) Wear helmet  
 (B) Wear head gear  
 (C) Do hairstyling  
 (D) Undertake much work
86. Why is social life taboo at home ?  
 (A) Babies are demanding.  
 (B) Babies do not like guests.  
 (C) Babies hate parties.  
 (D) Babies prefer to go out than stay at home.



**Directions :** In Question Nos. 87 to 91, 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.

87. The principal / started his lecture /  
(A) (B)  
with a pessimistic note. / No error.  
(C) (D)
88. Rohan had been playing /  
(A)  
for his club for fifteen years. /  
(B)  
when his elbow got injured. / No error.  
(C) (D)
89. None of / the twins /  
(A) (B)  
offered to help me. / No error.  
(C) (D)
90. My teacher / did not object /  
(A) (B)  
to me using the calculator. / No error.  
(C) (D)
91. The river / has overflowed / its banks. /  
(A) (B) (C)  
No error.  
(D)

**Directions :** In Question Nos. 92 to 96, 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.

92. The bird's voice was speaking  
\_\_\_\_\_ all lying under stars.  
(A) to (B) for (C) at (D) in

93. \_\_\_\_\_ my food and my repose  
were salted.  
(A) None of (B) All of  
(C) Both (D) Both of

94. India will \_\_\_\_\_ arch rival  
Pakistan in the finals.  
(A) takes after (B) looks after  
(C) taken back (D) take on

95. The shepherd was looking after the  
\_\_\_\_\_ of sheep.  
(A) crew (B) gang (C) fleet (D) flock

96. Many of us believe that science is  
something modern \_\_\_\_\_ the  
truth is otherwise.  
(A) unless (B) though (C) if (D) as if

**Directions :** In Question Nos. 97 and 98, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

97. VIVACIOUS  
(A) Lively (B) Venomous  
(C) Clear (D) Superior
98. Staunch  
(A) Loyal (B) Benign  
(C) Good (D) Wise

**Directions :** In Question Nos. 99 and 100, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

99. Modesty  
(A) Honesty (B) Vanity  
(C) Originality (D) Variety
100. Spite  
(A) Spleen (B) Venom  
(C) Spirit (D) Affection



### PART - III

#### QUANTITATIVE APTITUDE

101. If  $2x + 3y : 3x + 5y = 18 : 29$ , then  $\frac{x}{y}$  is equal to  
 (A)  $\frac{3}{4}$  (B)  $\frac{4}{3}$  (C)  $\frac{2}{3}$  (D)  $\frac{5}{6}$
102.  $\sqrt{\frac{0.081 \times 0.324 \times 4.624}{1.5625 \times 0.0289 \times 72.9 \times 64}}$  is  
 (A) 24 (B) 2.4  
 (C) 0.024 (D) 2.04
103. In a particular type of alloy the ratio of lead to tin is 5 : 6. The amount of lead should be added to 12.1 kg of this material to make the ratio 1 : 1 is  
 (A) 1.1 kg (B) 1 kg  
 (C) 0.9 kg (D) 1.5 kg
104. If the average of  $m$  numbers is  $n^2$  and that of  $n$  numbers is  $m^2$ , then the average of  $(m + n)$  numbers is  
 (A)  $\frac{m}{n}$  (B)  $mn$   
 (C)  $m - n$  (D)  $m + n$
105. The simple interest at  $x\%$  for  $x$  years will be ₹  $x$  on a sum of  
 (A) ₹  $x$  (B) ₹  $100x$   
 (C) ₹  $\frac{100}{x}$  (D) ₹  $\frac{100}{x^2}$
106. A shopkeeper sells an article at a loss of  $12\frac{1}{2}\%$ . Had he sold the article for ₹ 51.80 more, he would have earned a profit of 6%. The cost price of the article is  
 (A) 280 (B) 580 (C) 370 (D) 450
107. The cost price of 18 articles is equal to the selling price of 15 articles. The gain is  
 (A) 25% (B) 20% (C) 18% (D) 15%
108. Successive discounts of 50% and 50% is equivalent to  
 (A) 100% (B) 75%  
 (C) 50% (D) 25%
109. A, B, C enter into a partnership with shares in the ratio  $\frac{7}{2} : \frac{4}{3} : \frac{6}{5}$ . After 4 months, A increases his share by 50%. If the total profit at the end of the year was ₹ 43,200, then the B's share in the profit is  
 (A) ₹ 4,200 (B) ₹ 4,800  
 (C) ₹ 7,200 (D) ₹ 8,000
110. Two trains, of same length, are running in parallel tracks in opposite directions with speed 65 km/hour and 85 km/hour respectively. They cross each other in 6 seconds. The length of each train is  
 (A) 100 metre (B) 115 metre  
 (C) 125 metre (D) 150 metre

SPACE FOR ROUGH WORK



111. 50 persons can do a work in 12 days, working 6 hours/day. 60 persons can do the same work in 8 days, working  $x$  hours per day. The value of  $x$  is

- (A) 15 (B)  $7\frac{1}{2}$  (C)  $5\frac{2}{3}$  (D) 5

112. If  $x + \frac{1}{y} = 1$  and  $y + \frac{1}{z} = 1$ , then  $z + \frac{1}{x}$  is equal to

- (A) 2 (B)  $\frac{1}{2}$  (C) 1 (D) 0

113. If  $4x - 5z = 16$  and  $xz = 12$ , the value of  $64x^3 - 125z^3$  is equal to

- (A) 15610 (B) 15616  
(C) 15618 (D) 15620

114. If  $x + y + z = 15$ ,  $xy + yz + zx = 75$

then  $\frac{x + 4y + z}{3z}$  is equal to

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

115. If the graphs of  $3x - 5y = -8$  and  $3x + 5y = 32$  intersect at the point  $(p, q)$ , then the value of  $p - q$  is

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

116. If  $x = \sqrt{3} + \sqrt{2}$  and  $y = \sqrt{3} - \sqrt{2}$  then the value of  $8xy(x^2 + y^2)$  is

- (A)  $16\sqrt{6}$  (B) 32  
(C)  $48\sqrt{2}$  (D) 80

117. In a  $\triangle ABC$ ,  $\angle A = 80^\circ$ . If BD and CD are internal bisectors of  $\angle B$  and  $\angle C$  respectively, then the  $\angle BDC$  is,

- (A)  $100^\circ$  (B)  $110^\circ$   
(C)  $120^\circ$  (D)  $130^\circ$

118. The side BC of the triangle ABC is produced to D. If  $\angle ACD = 112^\circ$  and  $\angle ABC = \frac{3}{4} \angle BAC$ , then the  $\angle ABC$  is equal to

- (A)  $68^\circ$  (B)  $58^\circ$   
(C)  $48^\circ$  (D)  $38^\circ$

119. In  $\triangle ABC$ , X and Y are points on sides AB and BC respectively such that  $XY \parallel AC$  and XY divides triangular region ABC into two parts equal in area. Then  $\frac{AX}{AB}$  is equal to

- (A)  $\frac{2 + \sqrt{2}}{2}$  (B)  $\frac{\sqrt{2} + 3}{2}$   
(C)  $\frac{2 - \sqrt{2}}{2}$  (D)  $\frac{3 - \sqrt{2}}{2}$

120. A circle is touching the side BC of  $\triangle ABC$  at P and is also touching AB and AC produced at Q and R respectively. If  $AQ = 6$  cm, then perimeter of  $\triangle ABC$  is

- (A) 6 cm (B) 10 cm  
(C) 12 cm (D) 18 cm

SPACE FOR ROUGH WORK



121. The length of two parallel chords of a circle are 6 cm and 8 cm. If the smaller chord is at a distance of 4 cm from the centre, the distance of the other chord from the centre is  
(A) 5 cm (B) 6 cm (C) 4 cm (D) 3 cm
122. The area of an isosceles trapezium is  $176 \text{ cm}^2$  and the height is  $\frac{2}{11}$ th of the sum of its parallel sides. If the ratio of the length of the parallel sides be 4 : 7, then the length of a diagonal is  
(A)  $\sqrt{168}$  cm (B)  $2\sqrt{147}$  cm  
(C)  $\sqrt{137}$  cm (D)  $2\sqrt{137}$  cm
123. The medians AD, BE and CF of a triangle ABC are of lengths 18 cm, 24 cm and 30 cm respectively. The area in  $\text{cm}^2$  of the triangle is  
(A) 96 (B) 192 (C) 288 (D) 374
124. A solid iron sphere of diameter 6 cm is melted and made to a hollow cylindrical pipe of external diameter 10 cm and of length 4 cm. The width of the sheet of pipe is  
(A) 1 cm (B) 2 cm (C) 3 cm (D) 4 cm
125. If the volumes of a sphere and a cylinder of equal radius are same, then ratio of the radius and height of the cylinder will be  
(A) 4 : 3 (B) 3 : 2 (C) 3 : 4 (D) 2 : 3
126. If the base of a right pyramid is a triangle of sides 21 cm, 20 cm, 13 cm and its altitude is 30 cm, then its volume (in  $\text{cm}^3$ ) will be  
(A) 430 (B) 630  
(C) 1068 (D) 1260
127. If the difference between an exterior angle of a regular polygon of  $n$  sides and an exterior angle of another regular polygon of  $(n + 1)$  sides is equal to  $5^\circ$ , then the value of  $n$  is  
(A) 5 (B) 6 (C) 7 (D) 8
128. If the base of a right prism of 20 cm high is a rhombus whose diagonal are 14 cm and 18 cm, then the volume in  $\text{cm}^3$  of the prism will be  
(A) 2520 (B) 2250  
(C) 3520 (D) 1250
129. The value of  $\sin^2 1^\circ + \sin^2 3^\circ + \sin^2 5^\circ + \dots + \sin^2 87^\circ + \sin^2 89^\circ$  is  
(A) 22 (B)  $22\frac{1}{2}$   
(C) 23 (D)  $22\frac{1}{4}$
130. The minimum value of  $\cos^2 \theta + \sec^2 \theta$  is  
(A) 0 (B) 1 (C) 2 (D) 3
131. If  $\cos \theta + \sec \theta = 2$  ( $0^\circ \leq \theta \leq 90^\circ$ ) then the value of  $\cos 10\theta + \sec 11\theta$  is  
(A) 0 (B) 1 (C) 2 (D) -1

SPACE FOR ROUGH WORK



132. In a division sum, the divisor is 10 times the quotient and 5 times the remainder. If the remainder is 40, then the dividend is

(A) 240 (B) 440 (C) 4040 (D) 4000

133. The value of  $\frac{1}{2} + \left(\frac{7}{8} \times \frac{4}{5}\right) - \left(\frac{2}{3} \div \frac{4}{5}\right) + \frac{3}{4}$  of  $\frac{2}{5}$  is

(A)  $\frac{1}{3}$  (B)  $\frac{2}{3}$  (C)  $\frac{3}{4}$  (D)  $\frac{3}{5}$

134. Let  $x = 5 + \frac{1}{\sqrt{5}} + \frac{1}{5 + \sqrt{5}} + \frac{3}{\sqrt{5} - 5}$ .  
The value of  $x$  is

(A)  $5 + \sqrt{5}$  (B) 0  
(C)  $\frac{9}{2}$  (D) 5

135. The total number of prime factors in  $(25)^{10} \times (24)^{20} \times (26)^{25}$  is

(A) 1000 (B) 120 (C) 150 (D) 140

136. The value of  $\frac{0.625 \times 0.0729 \times 28.9}{0.0081 \times 0.025 \times 1.7}$

(A) 3825 (B) 3845  
(C) 3925 (D) 3945

137. The value of

$$\sqrt{8 - 8 \times \frac{2\frac{1}{5} - 1\frac{2}{7}}{2 - \frac{1}{6 - \frac{1}{6}}}}$$

(A) 0 (B) 4 (C) 3 (D) 2

138. Two numbers are respectively 25% and 40% less than a third number. What percent of the first is the second?

(A) 60 (B) 70 (C) 40 (D) 80

139. A reduction of 20% in the price of sugar enables Mr. Bhadra to buy an extra 5 kg of it for ₹ 320. The original rate of sugar is

(A) ₹ 12 per kg (B) ₹ 15 per kg  
(C) ₹ 16 per kg (D) ₹ 20 per kg

140. In two blends of mixed tea, the ratios of Darjeeling and Assam tea are 4 : 7 and 2 : 5. The ratio in which these two blends should be mixed to get the ratio of Darjeeling and Assam tea in the new mixture as 6 : 13 is

(A) 2 : 7 (B) 5 : 13  
(C) 4 : 13 (D) 22 : 35

SPACE FOR ROUGH WORK

141. If  $\sec \theta - \operatorname{cosec} \theta = 0$ , then the value of  $\tan \theta + \cot \theta$

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

142. From the top of a tree of height 120 m the angle of depression of two boats in the same line with the foot of the tree and on the same side of it are  $45^\circ$  and  $60^\circ$  respectively. The distance between the boats is

- (A)  $40(3 - \sqrt{3})$  m  
(B)  $40(3\sqrt{3} - 1)$  m  
(C)  $120(\sqrt{3} - 1)$  m  
(D)  $120(3 - \sqrt{3})$  m

143.  $(a + b - 2c)^3 + (b + c - 2a)^3 + (c + a - 2b)^3$  is equal to

- (A)  $(a+b-2c)(b+c-2a)(c+a-2b)$   
(B)  $2(a+b-2c)(b+c-2a)(c+a-2b)$   
(C)  $3(a+b-2c)(b+c-2a)(c+a-2b)$   
(D)  $-3(a+b-2c)(b+c-2a)(c+a-2b)$

144. The sum of two numbers is 528, and their HCF is 33. How many pairs of such numbers can be?

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

145. A, B and C are three taps connected to a tank. A and B together can fill the tank in 6 hours, B and C together can fill it in 10 hours and A and C together can fill it in  $7\frac{1}{2}$  hours. In how much time will C alone can fill the tank?

- (A) 10 hours (B) 12 hours  
(C) 20 hours (D) 30 hours

146. A and B walk from one corner of a rectangular field to the corner just diagonally opposite. A walks along the diagonal, and B walks along the sides, reaching the finishing point together. If the ratio of the length and breadth of the field is 3 : 4, the ratio of their speeds is

- (A) 3 : 4 (B) 4 : 3  
(C) 4 : 5 (D) 5 : 7

Direction : Study the following table and answer questions 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 increase in the number of candidates qualified under Engineering discipline from 2009 to 2010 was

- (A) 28 (B) 30  
(C) 46 (D) 49

SPACE FOR ROUGH WORK



148. The number of candidates qualified in Science discipline was the lowest in the year

- (A) 2006 (B) 2008  
(C) 2009 (D) 2010

Direction : Study the following graph and answer Q. Nos. 149 and 150 :



149. The value of sales of finished goods in 1999 was approximately what percent of the average amount invested in raw materials in the year 1997, 1998 and 1999 ?

- (A) 33% (B) 37%  
(C) 49% (D) 52%

150. The maximum difference between the amount invested in raw materials and the value of sales of finished goods in that year was in the year

- (A) 1995 (B) 1996  
(C) 1997 (D) 1998

### FOR VISUALLY HANDICAPPED CANDIDATE ONLY

147. A particle goes from a point P to another point Q at an average speed of 60 metre/minute and comes back to the point P at an average speed of 40 metres/minutes. The average speed of the particle for the whole journey is

- (A) 50 metre/minutes  
(B) 48 metre/minutes  
(C) 24 metre/minutes  
(D) 44 metre/minutes

148. A and B are two stations 465 km apart. A car starts from A at 10 a.m. and travels towards B at 65 km/hours. Another car starts from B at 11 am and travels towards A at 35 km/hour. At what time two cars meet each other ?

- (A) 5 pm (B) 4 pm (C) 3 pm (D) 2 pm

149. A car runs along the four sides of a square field at the speed of 20 km/hr, 30 km/h, 40 km/h and 60 km/h. Find the average speed (in km/h) of the car around the field.

- (A) 32 (B) 34 (C) 38 (D) 42

150. A boat goes 30 km upstream and 44 km down stream in 10 hrs. In 13 hrs, it can go 40 km upstream and 55 km down stream, then the speed of the boat in still water is

- (A) - 5 km/hr. (B) 8 km/hr.  
(C) 15 km/hr. (D) 13 km/hr.

SPACE FOR ROUGH WORK

## PART - IV

## GENERAL AWARENESS

151. Who was the founder of the "Prarthana Samaj" ?

- (A) Ramakrishna Paramahansa
- (B) Swami Vivekananda
- (C) Athmaram Panduranga
- (D) Dayananda Saraswathi

152. Arrange the following historical events chronologically choosing the correct response :

- I. French Revolution
- II. Glorious Revolution
- III. American War of Independence
- IV. Russian Revolution

- (A) I II III IV
- (B) II III I IV
- (C) II I IV III
- (D) III II I IV

153. The Southernmost Point of India is

- (A) Cape Comorin
- (B) Point Calimere
- (C) Indira Point
- (D) Port Blair

154. Which of the following soils is most ideal for paddy cultivation ?

- (A) Laterite soil
- (B) Red soil
- (C) Alluvial soil
- (D) Black soil

155. The red colour of red soil is due to the rusting of

- (A) Nitrogen
- (B) Humus
- (C) Iron
- (D) Copper

156. Which one of the following rivers crosses the equator two times ?

- (A) Congo River
- (B) Amazon River
- (C) Niger River
- (D) Nile River

157. Match correctly the following countries and their capitals by choosing the correct response :

Country	Capital
(a) Argentina	(i) Bogotá
(b) Colombia	(ii) Harare
(c) Egypt	(iii) Buenos Aires
(d) Zimbabwe	(iv) Cairo
(A) (ii) (iii) (iv) (i)	
(B) (iii) (iv) (i) (ii)	
(C) (iv) (i) (ii) (iii)	
(D) (iii) (i) (iv) (ii)	

158. The type of root formed in Betel vine is

- (A) Stilt Root
- (B) Clinging Root
- (C) Climbing Root
- (D) Prop Root

159. Chromosomes are made up of

- (A) DNA
- (B) Protein
- (C) DNA and Protein
- (D) RNA

160. Jersey bull used for cross breeding is an exotic variety from

- (A) England
- (B) France
- (C) Holland
- (D) Switzerland

161. Which of the following symbiotic associations forms a lichen ?

- (A) An algae and a fungus
- (B) An algae and a bryophyte
- (C) A bacterium and a fungus
- (D) A bacterium and a gymnosperm

162. Which one of the following crop combination is not adopted in mixed cropping in India ?

- (A) Wheat and Mustard
- (B) Wheat and Chick Pea
- (C) Rice and Ground nut
- (D) Ground nut and Sun flower



163. Daltonism (Protanopia) is the form of colour blindness in which the patient cannot see  
 (A) Green colour  
 (B) Red colour  
 (C) Blue colour  
 (D) All the above colours
164. The photoelectric effect is described as the ejection of electrons from the surface of a metal when  
 (A) It is heated.  
 (B) It is placed in strong electric field.  
 (C) Electrons of suitable velocity impinge on it.  
 (D) Light of suitable wavelength falls on it.
165. X-rays are \_\_\_\_\_ waves.  
 (A) longitudinal  
 (B) transverse  
 (C) electromagnetic  
 (D) elastic
166. The shape of a rain drop is spherical due to  
 (A) Viscosity  
 (B) Surface tension  
 (C) Elasticity  
 (D) Gravitation
167. The penetrating powers of  $\alpha$ ,  $\beta$  and  $\gamma$ -radiations, in decreasing order, are  
 (A)  $\alpha$ ,  $\beta$ ,  $\gamma$   
 (B)  $\gamma$ ,  $\beta$ ,  $\alpha$   
 (C)  $\beta$ ,  $\alpha$ ,  $\gamma$   
 (D)  $\gamma$ ,  $\alpha$ ,  $\beta$
168. In MS-Excel, which of the following function is used to find the highest value within the list ?  
 (A) COUNT  
 (B) PROPER  
 (C) MAX  
 (D) SUM
169. While the computer executes a program, the program is held in  
 (A) RAM  
 (B) ROM  
 (C) Hard Disk  
 (D) Floppy Disk
170. A hybrid computer is the one having the combined properties of  
 (A) Super and micro computers  
 (B) Mini and micro computers  
 (C) Analog and digital computers  
 (D) Super and mini computers
171. Tritium is an isotope of  
 (A) Oxygen  
 (B) Hydrogen  
 (C) Phosphorous  
 (D) Nitrogen
172. The three basic components of an atom are  
 (A) protons, neutrons and ions  
 (B) protons, neutrons and electrons  
 (C) protium, deuterium and tritium  
 (D) protons, neutrinos and ions
173. Alcohol obtained in the saponification process is  
 (A) Ethyl alcohol  
 (B) Methyl alcohol  
 (C) Wood spirit  
 (D) Glycerol
174. The product of equivalent weight and valency of an element is equal to  
 (A) Vapour density  
 (B) Specific heat  
 (C) Atomic weight  
 (D) Molecular weight
175. Chlorofluoro carbons are widely used in  
 (A) Micro ovens  
 (B) Solar heaters  
 (C) Washing machines  
 (D) Refrigerators

176. In which Eco-system Grassland is included ?  
 (A) Marine (B) Fresh water  
 (C) Terrestrial (D) Artificial
177. The main pollutant responsible for Bhopal Gas Tragedy is  
 (A) Methyl isocyanate  
 (B) Bromine  
 (C) Chlorofluoro carbon  
 (D) Chlorine
178. Presently the Union Minister of Minority Affairs is  
 (A) Dr. Farooq Abdullah  
 (B) Ghulam Nabi Azad  
 (C) K. Rahman Khan  
 (D) Salman Khurshid
179. Who won the Women French Open Title in 2013 ?  
 (A) Maria Sharapova  
 (B) Victoria Azarenka  
 (C) Serena Williams  
 (D) Venus Williams
180. Which of the following places of Sikh religious heritage is not in India ?  
 (A) Nankana Sahib  
 (B) Nanded  
 (C) Paonta Sahib  
 (D) Keshgarh Sahib
181. The headquarters of which one of the following organizations is not in Geneva ?  
 (A) Food and Agricultural Organisation  
 (B) World Meteorological Organisation  
 (C) World Health Organisation  
 (D) World Trade Organisation
182. Which one of the following museums in India and its location is wrongly matched ?  
 (A) National Railway Museum - New Delhi  
 (B) The Calico Museum of Textiles - Mumbai  
 (C) Salar Jung Museum - Hyderabad  
 (D) Napier Museum - Thiruvananthapuram
183. Which one of the following European Union countries has its own currency and has not switched over to Euro ?  
 (A) France (B) Germany  
 (C) Sweden (D) Spain
184. The pioneer of modern Hindi Literature is  
 (A) Srinivas Das  
 (B) Munshi Premchand  
 (C) Devaki Nandan Khatri  
 (D) Bharatendu Harishchandra
185. Which country has been admitted in July 2013 as the 28<sup>th</sup> member of the European Union ?  
 (A) Bulgaria (B) Croasia  
 (C) Cyprus (D) Romania
186. Which one of the following is wrongly paired ?
- | Sports        | Ground   |
|---------------|----------|
| (A) Athletics | - Track  |
| (B) Base Ball | - Court  |
| (C) Golf      | - Course |
| (D) Wrestling | - Ring   |
187. Which American President was a famous film/T.V. star before he became the President ?  
 (A) J.F. Kennedy  
 (B) Gerald R. Fond  
 (C) Richard Nixon  
 (D) Ronald Regan



188. "Value added" is equal to  
 (A) Output minus input  
 (B) Manufacturing profit  
 (C) Gross profit  
 (D) Capital gain
189. Value of a commodity expressed in terms of money is called  
 (A) Price  
 (B) Demand  
 (C) Utility  
 (D) Money value
190. *Selling cost* is an element of  
 (A) Monopolistic Competition  
 (B) Perfect Competition  
 (C) Pure Competition  
 (D) Monopoly
191. The opportunity cost of a factor of production is  
 (A) what it earns in its present use.  
 (B) what it can earn in the long period.  
 (C) what it can earn in some other use.  
 (D) the cost of production.
192. The demand for a product which is wanted for itself is known as  
 (A) Derived Demand  
 (B) Industry Demand  
 (C) Company Demand  
 (D) Direct or Autonomous Demand
193. The Parliamentary form of Government in India has been adopted from the  
 (A) American Constitution  
 (B) Russian Constitution  
 (C) British Constitution  
 (D) Swiss Constitution
194. Which of these are essentials of democratic system ?  
 (A) Free and fair elections  
 (B) Equality of opportunity  
 (C) Protection of rights  
 (D) All of the above
195. Which Amendment Act is referred as mini constitution ?  
 (A) 7<sup>th</sup> Constitutional Amendment Act, 1956  
 (B) 24<sup>th</sup> Constitutional Amendment Act, 1971  
 (C) 42<sup>nd</sup> Constitutional Amendment Act, 1976  
 (D) 44<sup>th</sup> Constitutional Amendment Act, 1978
196. Which Article of the Indian Constitution stipulates that Directive Principles of State Policy shall not be enforceable by any Court ?  
 (A) Article 31 (B) Article 38  
 (C) Article 37 (D) Article 39
197. Which one of the following languages is not specified in Schedule 8 of the Indian Constitution ?  
 (A) Sanskrit (B) Sindhi  
 (C) English (D) Nepali
198. Which ancient Indian kingdom is wrongly matched below with its capital ?  
 (A) Maurya – Pataliputra  
 (B) Pandya – Madurai  
 (C) Pallava – Vellore  
 (D) Kakatiya – Warangal
199. Which were the two dynasties, which ruled immediately before and after the Khiljis ?  
 (A) Slave and Lodi  
 (B) Saiyyad and Lodi  
 (C) Slave and Tughlaq  
 (D) Tughlaq and Lodi
200. Who among the following did not participate in the 1857 Revolt against the British ?  
 (A) Tantia Tope  
 (B) Tipu Sultan  
 (C) Rani Lakshmi Bai  
 (D) Nana Saheb



**MANNER IN WHICH ANSWERS ARE TO BE GIVEN****उत्तर देने की विधि**

**Directions :** Each question or incomplete statement is followed by four alternative suggested answers or completions. In each case, you are required to select the one that correctly answers the question or completes the statement and blacken [●] appropriate oval A, B, C or D by **Black/Blue Ball Point Pen** against the question concerned in the Answer-Sheet.

(For VH candidates corresponding oval will be blackened by the scribe.)

The following example illustrates the manner in which the questions are required to be answered.

**Example :**

**Question No. 'Q' -**

Out of the four words given below, three are alike in some way and one is different. Find the **ODD word** :

- (A) Girl
- (B) Boy
- (C) Woman
- (D) Chair

**Explanation :** In the above example, the correct answer is 'Chair' and this answer has been suggested at 'D'. Accordingly, the answer is to be indicated by blackening [●] the oval by Black/Blue Ball Point Pen in column 'D' against Question No. 'Q' in the manner indicated below :

**Question No. 'Q'**

[A] [B] [C] [●]

There is only one correct answer to each question. You should blacken [●] the oval of the appropriate column, viz., A, B, C or D. If you blacken [●] more than one oval against any one question, the answer will be treated as wrong. If you wish to cancel any answer, you should **completely erase** that black mark in the oval in the Answer-Sheet and then blacken the oval of revised response.

You are **NOT** required to mark your answers in this Booklet. All answers must be indicated in the Answer-Sheet only.

**निर्देश :** प्रत्येक प्रश्न अथवा प्रत्येक अधूरे कथन के बाद चार उत्तर अथवा पूरक कथन सुझाए गए हैं। प्रत्येक दशा में आपको किसी एक को चुनना है जो प्रश्न का सही उत्तर दे अथवा कथन को पूरा करे और आपको उत्तर-पत्रिका में उपयुक्त अण्डाकार खाने A, B, C या D को काले/नीले बॉल-पॉइंट पेन से काला [●] करना है।

(दृष्टिबाधित उम्मीदवारों के लिए संगत अण्डाकार लिपिक द्वारा काला किया जाए।)

नीचे दिए गए उदाहरण से स्पष्ट हो जाएगा कि उत्तर किस प्रकार दिए जाने हैं।

**उदाहरण :**

**प्रश्न सं. 'क्यू' -**

नीचे दिए हुए चार शब्दों में तीन कुछ मिलते-जुलते हैं तथा एक कुछ अलग किस्म का है। वह अलग किस्म का शब्द बताएँ :

- (A) लड़की
- (B) लड़का
- (C) महिला
- (D) कुर्सी

**स्पष्टीकरण :** ऊपर के उदाहरण में सही उत्तर 'कुर्सी' है और यह उत्तर 'D' में सुझाया गया है। अतः प्रश्न सं. 'क्यू' के सामने कॉलम 'D' के अण्डाकार खाने को काले/नीले बॉल-पॉइंट पेन से पूर्णतया काला [●] करके उत्तर नीचे बताई विधि के अनुसार दिया जाना है।

**प्रश्न सं. 'क्यू'**

[A] [B] [C] [●]

प्रत्येक प्रश्न का केवल एक ही सही उत्तर है। आपको समुचित कॉलम अर्थात् A, B, C या D के अण्डाकार खाने को काला [●] करना है। यदि आप किसी प्रश्न के सामने एक से अधिक अण्डाकार खाने को भरेंगे [●] तो आपका उत्तर ग़लत माना जाएगा। यदि आप किसी उत्तर को रद्द करना चाहते हैं तो आप उत्तर-पत्रिका के उस अण्डाकार खाने से काले निशान को पूरी तरह से मिटा दें और तब बदले हुए उत्तर के लिए अण्डाकार खाने को काला कर दें।

इस पुस्तिका के अन्दर आपको उत्तर अंकित नहीं करने हैं। उत्तर केवल उत्तर-पत्रिका में ही दें।





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