INSTRUCTIONS TO CANDIDATES

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.

1. 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 in the Answer-Sheet carefully.

2. You must also put your signature and Left-Hand thumb impression on the Answer-Sheet at the prescribed place before you actually answer the questions. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated.

3. All V.H./Cerebral Palsy candidates will have to write answers to the prescribed questions in their own handwriting to avoid ambiguity. Howsoever, all V.H./Cerebral Palsy candidates must put their left-hand thumb impression at the space provided in the Answer-Sheet. Those V.H./Cerebral Palsy candidates who can sign should also put their signatures in addition to thumb impression.

4. Answers must be shown by completely blackening the corresponding circles on Side-I 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.

5. 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.

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

7. Failure to comply with any of the above instructions will render a candidate liable to such action(s) as may be deemed fit.

8. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 24), which you should read carefully before actually answering the questions.

9. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend much time on any question.

10. No rough work is to be done on the Answer-Sheet. Blank spaces provided at various places in the question booklet may be used for rough work.

11. 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 in switched off mode, 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.

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Question Nos.1 to 4
प्रश्न संख्या 1 से 4 तक

Directions / निदेश: Select the missing number from the given responses.
दिए गए विकल्पों में से लुप्त अंक जान कीजिए

1)  

A) 54  B) 78  C) 34  D) 24

2)  

A) 4  B) 2  C) 16  D) 32

3)  

A) 11  B) 10  C) 7  D) 4

4)  

A) 13  B) 11  C) 20  D) 15

Question Nos.5 to 7
प्रश्न संख्या 5 से 7 तक

Directions / निदेश: A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
एक अनुक्रम दिया है, जिसमें एक पद छूटा है। दिए गए विकल्पों में से वह सही विकल्प चुनिए जो अनुक्रम को पूरा करेगी

5) 127, 131, 139, 145, 151, 157, 163, 167
A) 141  B) 143  C) 147  D) 149

6) 1, 1, 2, 3, 5, 7, 11, 13, 21
A) 6  B) 8  C) 7  D) 9

7) 361, 169, 121, 81, 49, 25
A) 289  B) 196  C) 256  D) 324

Question Nos.8 to 16
प्रश्न संख्या 8 से 16 तक

Directions / निदेश: Find the odd word/letters/number from the given alternatives.
दिए गए विकल्पों में से विषम शब्द / अक्षर / संख्या चुनिए

8) A) sacdf  B) gijjk  C) mmopqq  D) qastuu

9) A) 6  B) 15  C) 12  D) 17

10) A) 853  B) 734  C) 532  D) 751

11) A) Solid / कोस  B) Plump / मोटी-मटोल  C) Fathom / शाह  D) Thick / मोटा
12) A) Whim / सनक B) Quirk / विचित्रता
   C) Caprice / मौज D) Foible/ दुर्बलता

13) A) FUEV B) QPSR C) VUXW D) YXWV

14) A) RQP B) HGF C) NPR D) DCB

15) A) IJKL B) PONM C) HGFE D) DCBA

16) A) 3463 B) 5725 C) 6514 D) 8948

17) Arrange the following words as per the reverse order in a dictionary.
    निम्नलिखित शब्दों को शब्दकोश में विपरीत क्रम में
    व्यवस्थित कीजिए।
    1. multitude 2. multinational 3. multiplier
    4. multinomial 5. multilingual
    A) 1 3 4 2 5 B) 5 4 3 2 1 C) 4 5 3 2 1 D) 1 3 2 4 5

20) a_baa_baa_ba
    A) bab B) bbb C) bba D) aab

21) Directions: Which conclusion is true with respect to the
    given statements
    निर्देश: जिन में से कौन सा निष्कर्ष सही है?
    Statement / कथन:
    1. All squares are rectangles. / सभी वर्ग आयत हैं।
    2. All rectangles are polygons. / सभी आयत बहुभुज हैं।
    Conclusion / निष्कर्ष:
    A) Square is a polygon. / वर्ग बहुभुज हैं।
    B) Square is not a rectangle. / वर्ग आयत नहीं हैं।
    C) Square is not a polygon. / वर्ग बहुभुज नहीं हैं।
    D) Square is a rectangle and polygon. / वर्ग आयत और बहुभुज हैं।

22) A piece of paper is folded and cut as shown below in the
    question figures. From the given answer figures, indicate
    how it will appear when opened.
    नीचे दिखाई दी आकृतियों में दिखाए गए चित्रों के अनुसार जानें कि उन्हें खोलने के बाद क्या आकृति आएगी?

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Part - I: General Intelligence

12) A) Whim / सनक B) Quirk / विचित्रता
   C) Caprice / मौज D) Foible/ दुर्बलता

13) A) FUEV B) QPSR C) VUXW D) YXWV

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    व्यवस्थित कीजिए।
    1. multitude 2. multinational 3. multiplier
    4. multinomial 5. multilingual
    A) 1 3 4 2 5 B) 5 4 3 2 1 C) 4 5 3 2 1 D) 1 3 2 4 5

20) a_baa_baa_ba
    A) bab B) bbb C) bba D) aab

21) Directions: Which conclusion is true with respect to the
    given statements
    निर्देश: जिन में से कौन सा निष्कर्ष सही है?
    Statement / कथन:
    1. All squares are rectangles. / सभी वर्ग आयत हैं।
    2. All rectangles are polygons. / सभी आयत बहुभुज हैं।
    Conclusion / निष्कर्ष:
    A) Square is a polygon. / वर्ग बहुभुज हैं।
    B) Square is not a rectangle. / वर्ग आयत नहीं हैं।
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Part - I: General Intelligence

12) A) Whim / सनक B) Quirk / विचित्रता
   C) Caprice / मौज D) Foible/ दुर्बलता

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    व्यवस्थित कीजिए।
    1. multitude 2. multinational 3. multiplier
    4. multinomial 5. multilingual
    A) 1 3 4 2 5 B) 5 4 3 2 1 C) 4 5 3 2 1 D) 1 3 2 4 5

20) a_baa_baa_ba
    A) bab B) bbb C) bba D) aab

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    C) Square is not a polygon. / वर्ग बहुभुज नहीं हैं।
    D) Square is a rectangle and polygon. / वर्ग आयत और बहुभुज हैं।

22) A piece of paper is folded and cut as shown below in the
    question figures. From the given answer figures, indicate
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    नीचे दिखाई दी आकृतियों में दिखाए गए चित्रों के अनुसार जानें कि उन्हें खोलने के बाद क्या आकृति आएगी?
24) 32 : 28 :: 160 : ?
   A) 80  B) 120  C) 140  D) 110

25) SNAKE : VQDNH :: CRADLE :: ?
   A) FUDGOH  B) EVFGOF  C) UDGOH  D) FVDPGH

26) FE : HG :: ML : ?
   A) OP  B) PO  C) ON  D) JO

27) \sqrt{AF} : 13 :: \sqrt{DA} : ?
   A) 21  B) 24  C) 22  D) 12

28) Perch : Fresh water :: ? : Salt water
   कवरई : मछली पानी :: ? : खार पानी
   A) Crocodile / समरसमुख  B) Snake / सांप  C) Cod / स्नेह मीन  D) Frog / सेकक

29) 196 : 256 :: ? : 400
   A) 144  B) 452  C) 324  D) 204

30) 414 : 636 :: 325 : ?
   A) 414  B) 222  C) 636  D) 547

31) Eyes : Tears :: ________
    आंखें : अंतः :: ________
   A) Hunger : Bread  B) Sea : Water  C) Heart : Artery  D) Volcano : Lava

32) Six faces of the dice are A,B,C,D,E and F. A is adjacent to B. B is adjacent to D but not C. E is adjacent to D and F. What is the side opposite to A?
    पायें के छह फलक हैं, A, B, C, D, E और F. A के अभाव हैं B. B के अभाव हैं D और C के नजदीक हैं। B, D के नजदीक हैं तथा C के नजदीक हैं। E और F के नजदीक हैं। A के सामने के फलक कौन-सा है?
   A) C  B) F  C) D  D) E

33) Ali had ₹ 320. He spent \( \frac{3}{4} \) of it to buy a watch. Of the remainder, he used \( \frac{1}{8} \) of it to buy a pen. How much money is left?
    आली के पास ₹ 320 थे। उसने \( \frac{3}{4} \) भाग एक सिक्के के लिए खरीदने में खर्च कर दिया। शेष रुपये में से \( \frac{1}{8} \) भाग उसने एक पेन खरीदने में खर्च कर दिया। उसके पास कितनी राशि शेष बची?
   A) 70  B) 120  C) 90  D) 100

34) Karan has a brother 'Prem' and a sister 'Neesha'. Karan's wife is 'Naj' and has a daughter 'Naksha'. Naksha got married with Neesha's son Akbar and has a baby girl 'Riya'. What is relation between 'Naksha' and 'Neesha'?
    करन का एक भाई 'प्रेम' और एक बहिणी 'नीशा' हैं। करन की पत्नी नाज़ है और पुत्री 'नक्शा' है। नक्शा की शादी नीशा के पुत्र अकबर से हुई और उसकी एक बुरी 'रिया' है। नक्शा और नीशा के बीच क्या संबंध है?
   A) Niece and Aunt / बहिणी और नानी  B) Mother and grand daughter / माँ और पौत्री
   C) Sister / बहिणी  D) Mother and daughter / मां एवं पौत्री

35) Which answer figure will complete the pattern in the question figure?
    कौन सी उत्तर आकृति प्रश्न आकृति के प्रतिकूल को पूरा करेगी?
    ![Question figure]
    A)  B)  C)  D) 

Question Nos.36 to 37

Directions / निर्देश: From the given alternative words, select the word which cannot be formed using the letters of the given word:
    निर्देश: दिए गए शब्द के अक्षरों का प्रयोग करके नहीं बनाया जा सकता:
36) Correspondence
A) Correspond   B) Condense   C) Respond   D) Respond

37) Calculate
A) Cat   B) Team   C) Tea   D) Late

38) If 'Stress' is coded as Rstress. Then 'Pulse' will be coded as?
A) Rulse   B) Rulse   C)ulse   D)ulse

39) If ARMS equal 1234 then MARS will equal to:
A) 4213   B) 4321   C) 1243   D) 3124

40) If Sita walks 10 Km towards West, then turned towards South and walked 10 Km, then turned East walked 10 Km, and turned North walked 10 Km. How far she is from starting point?
A) 0 Km   B) 40 Km   C) 20 Km   D) 10 Km

41) Identify the diagram that best represents the relationship among classes given below:
Social science, History and Geography
A) 3124   B) 4132   C) 3241   D) 1432

42) A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column. e.g., 'M' can be represented as 01.10 etc., and 'R' can be represented by 58.85 etc. Similarly, you have to identify the set for the word 'NOW'

<table>
<thead>
<tr>
<th>MATRIX-I</th>
<th>MATRIX-II</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 1 2 3 4</td>
</tr>
<tr>
<td>0 M W S Q</td>
<td>A D R N</td>
</tr>
<tr>
<td>1 M W S Q 1</td>
<td>6 A D R N O</td>
</tr>
<tr>
<td>2 W S Q I M</td>
<td>7 D R N O A</td>
</tr>
<tr>
<td>3 S Q I M W</td>
<td>8 R N O A D</td>
</tr>
<tr>
<td>4 Q 1 M W S</td>
<td>9 N O A D R</td>
</tr>
</tbody>
</table>

A) 86, 58, 11   B) 55, 78, 11   C) 95, 55,34   D) 95, 67, 02

43) Arrange the following words as per order in the dictionary.
Social science, History and Geography
A) 3124   B) 4132   C) 3241   D) 1432
44) From the given answer figures, select the one in which the question figure is hidden/embedded.

[figure images A, B, C, D]

A) c  B) d  C) b  D) a

45) If + stands for division; x stands for addition; – stands for multiplication, ÷ stands for subtraction, Which of the following is correct?

यदि + भाग के लिए है; x जन्म के लिए है; – गुणन के लिए है; ÷ घटाने के लिए है तो निम्नलिखित में से कौन सा सही है?

a) 25 x 3 - 7 ÷ 8 + 12 = 18  
b) 25 + 3 x 7 - 8 ÷ 12 = 10.89  
c) 25 - 3 + 7 x 8 + 12 = 132  
d) 25 + 3 x 7 - 8 + 12 = 19.3

A) c  B) b  C) d  D) a

46) Directions: In the question two statements are given each followed by two conclusions, 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 have to decide which of the given conclusions, if any, follows from the given statements.

निर्देश: प्रश्न में दो कथन दिए गए हैं जिसके आधार पर निष्कर्ष I और II निकाले गए हैं | दिए गए कथनों को सत्य मानकर चाहे वह जाती है में से निम्न प्रतीत होता होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय होय हो�

Statement / समाख्यात:
1- Some clerks are poor;
   कुछ लाखपाल गरीब हैं;
2- A is poor.
   ए गरीब हैं

Conclusion / निष्कर्ष:
I-A is clerk. / A लाखपाल हैं
II-A has a large family. / A के पास बड़ा परिवार हैं

A) Both conclusions I and II  B) Only conclusion II
   follows. / I और II दोनों  
   निष्कर्ष निकलते हैं
   केवल निष्कर्ष II 
   निकलता हैं

C) Only conclusion I follows. D) Neither conclusion I nor
   केवल निष्कर्ष I  निकलता 
   न है| और न ही II 
   निकलता हैं

47) Which one of the given responses would be a meaningful order of the following in ascending order?

निम्न विकल्पों में से कौन सा विकल्प नीचे दिए हए शब्दों का आरोही क्रम में सार्थक क्रम दर्शाता है?

1. atom / परमाणु  2. matter / पदार्थ  
3. molecule / अणु  4. electron / इलेक्ट्रॉन

A) 3 1 4 2  B) 4 1 3 2
C) 1 2 3 4  D) 3 4 1 2
48) If a mirror is placed on the line RS, then which of the answer figures is the right image of the given figure?

यदि एक दर्पण को RS रेखा पर रखा जाये तो दी गई उत्तर आकृतियों में से कौन-सी आकृति प्रश्न आकृति की सही प्रतिबिंब होगी?

A)  
B)  
C)  
D)  

49) Laxmi went 10 Km to the West from my house, then turned left and walked 20 Kms. She then turned East and walked 25 Kms & finally turning left covered 20 Kms. How far was she from my house?

लक्ष्मी घर से 10 Km पश्चिम की ओर गई, तब बाएं मुड़कर 20 Km चली। फिर वह पूर्व में मुड़ी और 25 Km चली और अंत में बाएं मुड़कर 20 Km गई। वह मेरे घर से कितनी दूरी पर थी?

A) 5 Kms  
B) 10 Kms  
C) 40 Kms  
D) 15 Kms  

50) Insert the arithmetical operations in the following numerical figure-

निम्नलिखित संख्याकीय अंकों में अंकगणितीय संक्रियाएं लगाइए-

4 _3 _ 4 = 48

A) + +  
B) x +  
C) + -  
D) x x
Question Nos. 51 to 60
Directions: 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.

PASSAGE
Past _I_ us in understanding our present world in a _II_ better way. If we know _III_ our ancestors lived or _IV_ the wars were waged, we can understand the today’s world _V_ and get ideas for a VI_ future. What appears to VII_ as wrong today could have been right VIII_. It is also interesting to know how IX_ in the past X_ the life of humans.

51)  
A) (I)-help  
B) (I)-helps  
C) (I)-helped  
D) (I)-is helping

52)  
A) (II)-more-  
B) (II)-just  
C) (II)-much  
D) (II)-most

53)  
A) (III)-how.  
B) (III)-where  
C) (III)-why  
D) (III)-when

54)  
A) (IV)-which  
B) (IV)-when-  
C) (IV)-why  
D) (IV)-how

55)  
A) (V)-well  
B) (V)-best  
C) (V)-betterment  
D) (V)-better.

56)  
A) (VI)-fairest  
B) (VI)-fairy  
C) (VI)-fair  
D) (VI)-fairest

57)  
A) (VII)-they  
B) (VII)-us-  
C) (VII)-him  
D) (VII)-them

58)  
A) (VIII)-earliest  
B) (VIII)-later  
C) (VIII)-early  
D) (VIII)-earlier

60)  
A) (X)-improves  
B) (X)-improve  
C) (X)-improved  
D) (X)-improvement

Question Nos. 61 to 64
Directions: Some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the circle corresponding to the appropriate option. If a sentence is free from error, blacken the circle corresponding to “No Error” option in the Answer Sheet.

61) When the workers threatened to go on a strike, the mill owner declared a lay off on his mill.
A) No error  
B) declared a lay off on his mill.  
C) go on a strike, the mill owner  
D) When the workers threatened to

62) The people gathered at the funeral to pay respect.
A) The people gathered  
B) to pay respect.  
C) at the funeral  
D) No error

63) Iodine deficiency is an easy and inexpensive nutrient disorder to prevent.
A) No error  
B) nutrient disorder to prevent  
C) is an easy and inexpensive  
D) Iodine deficiency

64) Whoever assumes his statement true is foolish.
A) is foolish  
B) No error  
C) his statement true  
D) Whoever assumes

Question Nos. 65 to 68
Directions: Out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

65) Desultory
A) Diminish  
B) Forsake  
C) Frugal  
D) Random

66) Jealous
A) Greedy  
B) Lustful  
C) Envious  
D) Proud
<table>
<thead>
<tr>
<th>Question Nos.69 to 72</th>
<th></th>
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<tbody>
<tr>
<td>Directions: 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 the four and indicate it by blackening the appropriate circle in the Answer Sheet.</td>
<td></td>
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<tr>
<td>69) The cold breath of autumn had ______ the ivy leaves from the vine and the branches remained almost bare.</td>
<td></td>
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<tr>
<td>A) stricken</td>
<td>B) strucked</td>
</tr>
<tr>
<td>70) You take a decision. The ball is in ______ now.</td>
<td></td>
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<tr>
<td>A) your net</td>
<td>B) your court</td>
</tr>
<tr>
<td>71) We can ______ right and wrong.</td>
<td></td>
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<tr>
<td>A) distinguished for</td>
<td>B) distinguish between.</td>
</tr>
<tr>
<td>72) He is a man of ______ simplicity.</td>
<td></td>
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<tr>
<td>A) child</td>
<td>B) childish.</td>
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<tr>
<th>Question Nos.73 to 76</th>
<th></th>
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<tbody>
<tr>
<td>Directions: Choose the word opposite in meaning to the given word and mark it in the Answer Sheet.</td>
<td></td>
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<tr>
<td>73) Defile</td>
<td></td>
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<tr>
<td>A) purify</td>
<td>B) yield</td>
</tr>
<tr>
<td>74) Desist</td>
<td></td>
</tr>
<tr>
<td>A) hope</td>
<td>B) assign</td>
</tr>
<tr>
<td>75) Sterile</td>
<td></td>
</tr>
<tr>
<td>A) fertile</td>
<td>B) infertile</td>
</tr>
<tr>
<td>76) Prudent</td>
<td></td>
</tr>
<tr>
<td>A) miserly</td>
<td>B) foolish</td>
</tr>
</tbody>
</table>

**Question Nos.77 to 80**

**Directions:** Out of the four alternatives, Choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate circle in the Answer Sheet.

| 77) Introductory part or lines to a discourse or play |  |
| A) Monologue | B) Epilogue | C) Blurb | D) Prologue |
| 78) A handsome man |  |
| A) Tycoon | B) Adonis | C) Debonair | D) Cavalier |
| 79) Intentional damage to arrest production |  |
| A) Modus operandi | B) Nemesis | C) Sangfroid | D) Sabotage |
| 80) A cinema show held in the afternoon. |  |
| A) Entertainment | B) Play | C) Matinee | D) Premiere |

**Question Nos.81 to 84**

**Directions:** Four alternatives are given for the Idiom/Phrase underlined. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

| 81) To take after |  |
| A) to write down | B) to resemble | C) to cheat | D) to remove |
| 82) The jury is out |  |
| A) No decision has been reached. | B) The jury has taken a break between hearings. | C) The entire jury decides to stay out of the proceedings. | D) A jury member is absent. |
| 83) Have a finger in every pie |  |
| A) to be efficient | B) to be greedy | C) to be meddlesome | D) to be quarrelsome |
| 84) She paid a flying visit to Mumbai to see her ailing father. |  |
| A) a surprise visit | B) a very long visit | C) a very short visit | D) went by aeroplane |
85) 1. Glorious tributes were paid
   P- who, after fighting a battle with cancer,
   Q- the original superstar of Bollywood
   R- passed away last month
   S- to the legendary Rajesh Khanna,
   6. at his residence in Mumbai.
   A) SRPQ    B) SQPR
   C) QSPR    D) SQRP

86) 1. Though the government
   P- the growth of population
   Q- has undertaken a series of plans
   R- and for raising the standard of living of the people
   S- for economic development
   6. has upset all the plans.
   A) SRPQ    B) QSRP
   C) SPQR    D) QPRS

87) 1. What gives some persons
   P- torturing physical pain
   Q- after experiencing
   R- after the loss of a precious loved one
   S- the power to fight on
   6. day after day?
   A) PQRS    B) PSQR
   C) PQSR    D) SRQP

88) 1. A volcano is an opening or rupture in a planet's surface.
   P- Erupting volcanoes can pose many hazards.
   Q- This opening allows magma, ash and gases to escape
       from below the surface.
   R- Volcanic ash can be a threat to aircraft.
   S- Volcanoes are generally found where tectonic plates are
       diverging or converging.
   6. Historically, so-called volcanic winters have caused
       catastrophic famines.
   A) SQRP    B) QSPR
   C) SPQR    D) RSPQ

90) A) Plagiariast  B) Plagiarist
    C) Plaguerast  D) Plagiarist

91) A) Acomodation  B) Accommodation
    C) Acommodation  D) Acommodation

92) A) Purritanical  B) Puritanical
    C) Puritanical   D) Purritanical

93) I'm really sorry but I haven't got much money myself.
   A) I'm really sorry but I not have much money myself.
   B) I'm really sorry but I have very few money myself.
   C) I'm really sorry I have lesser money myself.
   D) No improvement.

94) Both of them are good, but this is the best of the two.
   A) good    B) No improvement.
   C) better  D) much better

95) He said, 'Let the show begins.'
   A) 'Let the show begin.'  B) 'Let the show begin.'
   C) 'Let's the show begin'  D) 'Let the show to begin'

96) The museum's collection includes artefacts dated back to
    prehistoric times.
   A) date backs to  B) No improvement.
   C) dating back to  D) date back to

97) A) Ingenious    B) Ingenious
    C) Ingenious    D) Ingeenious
97) My brother told me that he would buy me a notepad the next day.

A) My brother said to me, "I would buy you a notepad tomorrow."
B) My brother "I am going to buy you a notepad tomorrow."
C) My brother said to me, "I will be buying you a notepad tomorrow."
D) My brother said to me, "I shall buy you a notepad tomorrow."

98) The peon said to his officer, "Please forgive me".

A) The peon requested his officer to forgive him.
B) The peon told his officer please forgive him.
C) The peon requested his officer that he forgive him.
D) The peon said to his officer that he should forgive him.

Question Nos.99 to 100

Directions: 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.

99) Take the medicine.

A) Let the medicine be taken.
B) The medicine must take you.
C) The medicine is to be taken by you.
D) You are requested to take the medicine.

100) I cannot trust him any more.

A) He may not be trusted by me any more.
B) He cannot be trusted by me any more.
C) He cannot trust by me any more.
D) He could not be trusted by me any more.
101) If \( p^2 - q^2 = (p - q)(p + q) \), then find the value of \( x \) is:

\[
\begin{align*}
\text{A)} & \quad -1 \\
\text{B)} & \quad -3 \\
\text{C)} & \quad 1 \\
\text{D)} & \quad 3
\end{align*}
\]

102) Simon purchased a bicycle for Rs 6810. He had paid a VAT of 13.5%. The list price of the bicycle was:

\[
\text{Selling Price} = 6810 \quad \text{VAT} = 13.5\% \quad \text{List Price}\]

\[
\text{Options:} \\
\text{A)} 6140 \\
\text{B)} 6695.50 \\
\text{C)} 6000 \\
\text{D)} 5970.50
\]

103) A circle touches the four sides of a quadrilateral ABCD. The value of \( \frac{1}{AB + CD} \) is equal to:

\[
\begin{align*}
\text{Options:} \\
\text{A)} & \quad 1 \\
\text{B)} & \quad \frac{1}{2} \\
\text{C)} & \quad \frac{1}{3} \\
\text{D)} & \quad 4
\end{align*}
\]

104) The radius of a hemispherical bowl is 6 cm. The capacity of the bowl is:

\[
(\text{Take} \pi = \frac{22}{7})
\]

\[
\begin{align*}
\text{Options:} \\
\text{A)} & \quad 345.53 \text{ cm}^3 \\
\text{B)} & \quad 452.57 \text{ cm}^3 \\
\text{C)} & \quad 495.51 \text{ cm}^3 \\
\text{D)} & \quad 452 \text{ cm}^3
\end{align*}
\]

105) In a business A and C invested amounts in the ratio 2 : 1, whereas A and B invested amounts in the ratio 3 : 2. If their annual profit be Rs 157300, then B's share in the profit is:

\[
(\text{Take} \pi = \frac{22}{7})
\]

\[
\begin{align*}
\text{Options:} \\
\text{A)} & \quad 24200 \\
\text{B)} & \quad 48400 \\
\text{C)} & \quad 48000 \\
\text{D)} & \quad 36300
\end{align*}
\]

106) TF is a tower with F on the ground. The angle of elevation of T from A is \( x^o \) such that \( \tan x^o = \frac{2}{5} \), and AF = 200m. The angle of elevation of T from a nearer point B is \( y^o \) with BF = 80m. The value of \( y^o \) is:

\[
\begin{align*}
\text{Options:} \\
\text{A)} & \quad 60^o \\
\text{B)} & \quad 45^o \\
\text{C)} & \quad 30^o \\
\text{D)} & \quad 75^o
\end{align*}
\]

107) A student goes to school at the rate of 2 1/2 Km/hr and reaches 6 minutes late. If he travels at the speed of 3 Km/hr he is 10 minutes early. What is the distance to the school?

\[
\begin{align*}
\text{Options:} \\
\text{A)} & \quad 3 \frac{1}{4} \text{ Kms/minute} \\
\text{B)} & \quad 4 \text{ Kms/minute} \\
\text{C)} & \quad 3 \frac{1}{2} \text{ Kms/minute} \\
\text{D)} & \quad 1 \text{ Kms/minute}
\end{align*}
\]

108) The sum of the perfect squares between 120 and 300 is:

\[
\begin{align*}
\text{Options:} \\
\text{A)} & \quad 1400 \\
\text{B)} & \quad 1024 \\
\text{C)} & \quad 1296 \\
\text{D)} & \quad 1264
\end{align*}
\]

109) If \( A, B, C \) are the angles of a \( \triangle ABC \) then following is equal to:

\[
\begin{align*}
\text{Options:} \\
\text{A)} & \quad \frac{\sec B}{2} \\
\text{B)} & \quad \frac{\sec C}{2} \\
\text{C)} & \quad \frac{\cos A}{2} \\
\text{D)} & \quad \frac{\cosec A}{2}
\end{align*}
\]
110) The ratio of production of steel in the year 1924 and 1925 to that of 1923 and 1927 is: 
वर्ष 1924 और 1925 में इस्पात के उत्पादन का वर्ष 1923 
और 1927 के उत्पादन से अनुपात कितना है?
A) 2005 : 2077 
B) 2205 : 2007 
C) 2077 : 2205  
D) 2205 : 2077

111) The average production of steel is: 
इस्पात का औसत उत्पादन है—
A) 76.09 
B) 77.10 
C) 75.13  
D) 74.07

112) The difference of the production of steel in the year 1923 
and 1924 is x% of 1927. Then the value of x is approximately: 
वर्ष 1923 और 1924 में इस्पात के उत्पादन का अंतर 1927 
का x% है। x का मान लगाताना कितना है—
A) .001  
B) 1 
C) .1  
D) .01

113) The number of years during which the company has its 
production less than the average production during 1920 – 
1927 is approximately: 
उन वर्षों की संख्या लगभग कितनी है जिसके दौरान कम्पनी का 
उत्पादन वर्ष 1920 – 1927 के औसत उत्पादन से कम 
है?
A) 6  
B) 2 
C) 3  
D) 4

114) If sin Θ + cos Θ = √2 sin (90° – Θ) then cot Θ is equal to: 
यदि sin Θ + cos Θ = √2 sin (90° – Θ) है तो cot Θ किसके 
बराबर है—
A) √2 – 1  
B) √2 
C) √2 + 1  
D) 0

115) A and B can do a piece of work in 15 days. B and C can do 
the same work in 10 days and A and C can do the same in 12 
days. Time taken by A, B and C together to do the job is: 
A और B एक कार्य को 15 दिनों में कर सकते हैं। B और C 
उसी कार्य को 10 दिनों में और A और C उसी कार्य को 12 
दिनों में कर सकते हैं। उस कार्य को A, B और C मिलकर 
कितने समय में करेंगे?
A) 4 days / दिन  
B) 9 days / दिन  
C) 5 days / दिन  
D) 8 days / दिन

116) AB is the diameter of a circle with centre O. P be a point on 
it. If ∠POA = 120°. Then, ∠PBO = ?
AB एक वृत्त का व्यास है जिसका केंद्र O है और इस पर P एक बिंदु है। यदि ∠POA = 120° है तो ∠PBO = ?
A) 50° 
B) 120°  
C) 45°  
D) 60°

117) The mean high temperature of the first four days of a week is 
25°c whereas the mean of the last four days is 25.5°c. If the 
mean of the whole week is 25.2°c then the temperature of the 
4th day is:
एक सप्ताह के पहले चार दिनों का औसत उच्च तापमान 
25°c है जबकि अंतिम चार दिनों का औसत 25.5°c है। यदि 
पूरे सप्ताह का औसत 25.2°c है तो पाँचवे दिन का तापमान 
है—
A) 25°c 
B) 25.2°c 
C) 25.6°c  
D) 25.5°c
118) Which head uses 25% of the funds?

Which head uses 25% of the funds?

A) Sports
B) Art and Craft
C) Library
D) Misc

119) Which head has the maximum expenditure?

Which head has the maximum expenditure?

A) Art & Craft
B) Library
C) Sports
D) Science

120) What percentage of the total expense is spent on library?

What percentage of the total expense is spent on library?

A) 24
B) 20
C) 16.6
D) 24.3

121) What is the ratio of expenditure on sports to that on art and craft?

What is the ratio of expenditure on sports to that on art and craft?

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

122) Which heads have the same amount of expenditure?

Which heads have the same amount of expenditure?

A) Science and Misc
B) Misc and Library
C) Sports and Science
D) Library and Science

123) Each side of a cube is decreased by 25%. Find the ratio of the volumes of the original cube and the resulting cube.

Each side of a cube is decreased by 25%. Find the ratio of the volumes of the original cube and the resulting cube.

A) 8:1
B) 64:27
C) 64:1
D) 27:64

124) For real a, b, c if \(a^2 + b^2 + c^2 = ab + bc + ca\),

For real a, b, c if \(a^2 + b^2 + c^2 = ab + bc + ca\),

the value of \(a + c\) is:

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

125) The value of the following is:

The value of the following is:

\[
\frac{\tan 20^\circ}{\tan 70^\circ} + \frac{\cot 20^\circ}{\cot 70^\circ}
\]

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

126) There is 10% loss if an article is sold at ₹ 270. Then the cost price of the article is:

There is 10% loss if an article is sold at ₹ 270. Then the cost price of the article is:

A) ₹ 320
B) ₹ 270
C) ₹ 300
D) ₹ 250

127) If \(x + y = 2a\), then the value of \(\frac{a}{x-a} + \frac{a}{y-a}\) is:

If \(x + y = 2a\), then the value of \(\frac{a}{x-a} + \frac{a}{y-a}\) is:

\(x-y=2a\) is

A) 2
B) 0
C) 1
D) -1
128) The base of a right prism is a trapezium whose lengths of two parallel sides are 10 cm and 6 cm and distance between them is 5 cm. If the height of the prism is 8 cm, its volume is:

एक ट्रापेजियम का आधार एक ट्रापेजियम है जिसके दो समांतर पाईं की लम्बाई 10 cm और 6 cm है और उनके बीच की दूरी 5 cm है। यदि ट्रापेजियम की ऊंचाई 8 cm है तो इसका आयतन है--

A) $310 \text{ cm}^3$  B) $300.5 \text{ cm}^3$
C) $300 \text{ cm}^3$  D) $320 \text{ cm}^3$

129) On what sum of money will the difference between simple interest and compound interest for 2 years at 5% per annum be equal to Rs. 63?

किसी राशि पर 5% प्रति वर्ष की दर पर दो वर्ष के साप्ताहिक ब्याज और चक्रशृंखला ब्याज के बीच अंतर रू. 63 के बराबर होगा?

A) ₹ 25,200  B) ₹ 24,600
C) ₹ 25,500  D) ₹ 24,800

130) If $x + \frac{3}{x} = 1$

then the value of $x^3$ is?

यदि $x + \frac{3}{x} = 1$ है तो $x^3$ का मान है--

A) $-27$  B) 1
C) 27  D) 0

131) The ratio of two numbers is 3 : 4 and their LCM is 120. The sum of numbers is:

दो संख्याओं का अनुपात 3 : 4 है और उनका समस्तक समान्तर 120 है। उन संख्याओं का योग है--

A) $140$  B) $35$
C) $70$  D) $105$

132) A hemisphere and a cone have equal bases. If their heights are also equal, then the ratio of their curved surfaces will be:

एक गोलाई और शंकु का समान आधार है। यदि उनकी ऊंचाई भी समान है तो उनके वक्र पृष्ठ का अनुपात होगा--

A) $1 : 2$  B) $1 : \sqrt{2}$
C) $\sqrt{2} : 1$  D) $2 : 1$

133) A shop of electronic goods is closed on Monday. The average sales per day for remaining six days of a week is ₹ 15640 and the average sale of Tuesday to Saturday is ₹ 14124. The sales on Sunday is:

एक इलेक्ट्रॉनिक वस्त्र की एक दुकान सोमवार को बंद रहती है। सप्ताह के शेष 6 दिनों की औसत प्रतिदिन बिक्री ₹ 15640 है और भर्तिकार से शनिवार की औसत बिक्री ₹ 14124 है। सोमवार की बिक्री है--

A) Data inadequate / अक्षम आयति
B) ₹ 21704
C) ₹ 23220  D) ₹ 20188

134) $9x^2 + 25 - 30x$ can be expressed as the square of:

$9x^2 + 25 - 30x$ को है?

A) $-3x - 5$  B) $3x - 5$
C) $3x^2 - 25$  D) $3x + 5$

135) AB and AC are tangents to a circle with centre O. A is the external point of the circle. The line AO intercepts the chord BC at D. The measure of $\angle BDO$ is:

AB और AC एक वृत्त की स्पर्शरेखाएं हैं, जिसमें O वृत्त का केंद्र है। A वृत्त का बाहरी बिंदु है। AO रेखा जो BC को D पर काटती है।$\angle BDO$ का माप है--

A) $75^0$  B) $45^0$
C) $90^0$  D) $60^0$

136) Let ABC be an equilateral triangle and AD perpendicular to BC. Then

$AB^2 + BC^2 + CA^2 = ?$

मान लें कि ABC एक समबाहु त्रिभुज है और AD BC के

$AB^2 + BC^2 + CA^2 = ?$

A) $3AD^2$  B) $5AD^2$
C) $4AD^2$  D) $2AD^2$

137) A man buys a TV priced at ₹ 16000. He pays ₹ 4000 at once and the rest after 15 months on which he is charged a simple interest at the rate of 12% per year. The total amount he pays for the TV is:

एक ब्रम्ह की 16000 की कीमत वाला एक टी.वी. खरीदता है। वह ₹ 4000 जल्दी दे देता है और शेष 15 महीनों के बाद देता है जिस पर उसके 12% नियमित की दर से साधारण

ब्याज लिया जाता है। वह टी.वी. के लिए कुल कितनी राशि

A) ₹ 17,800  B) ₹ 18,200
C) ₹ 17,200  D) ₹ 16,800
138) The total discount on ₹ 1800 due after a certain time at 5% is ₹ 90. Find the time after which it is due.

A) 9 months / महीने
B) 10 months / महीने
C) 8 months / महीने
D) 7 months / महीने

139) The difference between the greatest and the least four digit numbers that begins with 3 and ends with 5 is:
3 से आरंभ होने वाली और 5 से समाप्त होने वाली 4 अंकों की संख्या अवश्य सम्बन्धित विभवी श्रेणी हैं—
A) 990
B) 900
C) 909
D) 999

140) What is the position of the circumcentre of an obtuse-angled triangle?
एक अभिलोक्य किन्जु वे भूमिका की अवस्थिति क्या है?
A) It lies inside the triangle /
B) It is the midpoint of the
largest side. / यह सबसे
C) It lies outside the triangle. /
D) It is the vertex opposite to

141) D and E are mid-points of sides AB and AC respectively of the triangle ABC. A line drawn from A meets BC at H and DE at K.
AK : KH = ??
D और E, एक त्रिभुज की भुजा AB और AC के केंद्रों के मध्य दिक हैं। एक रेखा जो A से गुजरती है एक रेखा H पर BC से, और K पर DE से मिलती है|
AK : KH = ??
A) 1 : 3
B) 2 : 1
C) 1 : 2
D) 1 : 1

142) If \( \sqrt{33} = 5.745 \), then the value of the following is approximately:
यदि \( \sqrt{33} = 5.745 \), तो निम्नलिखित का मान लगभग कितना है?

A) 6.32
B) 2.015
C) 1
D) 0.5223

143) The value of the following is:
निम्नलिखित का मान है—
\[
\left( \frac{\sin 47^\circ}{\cos 43^\circ} \right)^2 - \left( \frac{\cos 43^\circ}{\sin 47^\circ} \right)^2 - 4\cos^2 45^\circ
\]
A) \( \frac{1}{2} \)
B) 1
C) \( \frac{1}{2} \)
D) 0

144) The greatest four digit number which is exactly divisible by each one of the numbers 12, 18, 21 and 28.
धार अंकों की सबसे बड़ी संख्या जो 12, 18, 21 और 28 प्रत्येक
A) 9828
B) 9928
C) 9882
D) 9288

145) The number of pair of positive integers whose sum is 99 and HCF is 9 is:
क्योंकी संख्या के 99 और HCF है—
A) 2
B) 4
C) 3
D) 5

146) 59% of a number when added to 50 is equal to the number.
The number is:
59% वाला नंबर के लिए दिया गया है—
A) 150
B) 75
C) 50
D) 100

147) A train passes an electrical pole in 20 seconds and passes a platform 250m long in 45 seconds. Find the length of the train.
एक रेलगाड़ी एक बिंदु के बीच के समय में 20 सेकंड में गुजरती है और 250m लम्बे एक घाट में 45 सेकंड में गुजरती है। रेलगाड़ी की संख्या जान करें?
A) 400m
B) 250m
C) 200m
D) 300m
An epidemic broke out in a village in which 5% of the population died. Of the remaining, 20% fled out of panic. If the present population is 4655, then the population of the village originally was:

एक गांव में महामारी पैली जिससे 5% जनसंख्या की मृत्यु हो गई थी और से 20% आत्महत्या हो गई थी कर भाग गए। यदि वर्तमान जनसंख्या 4655 है तो गांव की मूल संख्या कितनी थी?

A) 5995  B) 6125  C) 6000  D) 5955

A pipe can fill a tank in 24 hrs. Due to a leakage in the bottom, it is filled in 36 hrs. If the tank is half full, how much time will the leak take to empty the tank?

एक पाइप एक टैंक को 24 घंटे में भर सकता है। लेकिन में जिल्ला के कारण यह 36 घंटे में भरता है। यदि टैंक आधा भरा है तो उस जिल्ले से टैंक कितने समय में खाली होगा?

A) 24 hrs / घंटे  B) 72 hrs / घंटे  C) 36 hrs / घंटे  D) 48 hrs / घंटे

The difference between simple interest and the true discount on ₹ 2400 due 4 years hence at 5% per annum simple interest:

5% प्रतिवर्ष के साधारण ब्याज पर अब से 4 वर्षों में देय ₹ 2400 के साधारण ब्याज और वास्तविक छूट में अंतर है-?

A) ₹ 50  B) ₹ 30  C) ₹ 70  D) ₹ 80
151) Dry ice is the solid form of:
- Saturated air
- Carbon di-oxide
- Water / पानी
- Nitrogen / नाइट्रोजन

**Options:**
A) Carbon di-oxide / कार्बन डाइ ऑक्साइड
B) Water / पानी
C) Air / बायोजन
D) Nitrogen / नाइट्रोजन

152) Which one of the following wood is used in making cricket bats?
- Cedrus deodara / सेदूसस
- Salix purpurea / सैलिस परप्पर्परीया
- Linum usitatissimum / लिंम यूसीटीटिसोइमम
- Morus alba / मोरस एल्बा

**Options:**
A) Cedrus deodara / सेदूसस
B) Salix purpurea / सैलिस परप्पर्परीया
C) Linum usitatissimum / लिंम यूसीटीटिसोइमम
D) Morus alba / मोरस एल्बा

153) What is 'Talcher' important for?
- Cable industry / केबल उद्योग
- Heavy water plant / भारी जल संयंत्र
- Hydro-electricity generation / जल विदुष्ट रिएक्टर
- Atomic reactor / एटोमिक रिएक्टर

**Options:**
A) Cable industry / केबल उद्योग
B) Heavy water plant / भारी जल संयंत्र
C) Hydro-electricity generation / जल विदुष्ट रिएक्टर
D) Atomic reactor / एटोमिक रिएक्टर

154) Who is the founder of the concept "Sarvodaya"?
- K G Murshoomwala / के. जी. मुस्लिमवाला
- Mahatma Gandhi / महात्मा गांधी
- Vinoba Bhave / विनोबा बन्धुवाले
- Jai Prakash Narayan / जय प्रकाश नारायण

**Options:**
A) K G Murshoomwala / के. जी. मुस्लिमवाला
B) Mahatma Gandhi / महात्मा गांधी
C) Vinoba Bhave / विनोबा बन्धुवाले
D) Jai Prakash Narayan / जय प्रकाश नारायण

155) World's largest producer of coffee:
- Argentina / अर्जेंटीना
- Peru / पेरू
- Brazil / ब्राजील
- India / भारत

**Options:**
A) Argentina / अर्जेंटीना
B) Peru / पेरू
C) India / भारत
D) Brazil / ब्राजील

156) The battle of Plassey was fought between:
- Mir Khasim and Robert Clive.
- Sirajudduala and Robert Clive.
- Mir Jafar and Robert Clive.
- None of the options.

**Options:**
A) Mir Khasim and Robert Clive.
B) Sirajudduala and Robert Clive.
C) Mir Jafar and Robert Clive.
D) None of the options.

157) When and where did the concept of Earth hour began?
- First time in Christchurch, New Zealand
- Second time in Christchurch, New Zealand
- Third time in Christchurch, New Zealand
- Fourth time in Christchurch, New Zealand

**Options:**
A) Second time in Christchurch, New Zealand
B) Third time in Christchurch, New Zealand
C) Fourth time in Christchurch, New Zealand
D) None of the options

158) The Industrial Development Bank of India was set up in:
- Kerala / केरल
- Rajasthan / राजस्थान
- Madhya Pradesh / मध्य प्रदेश
- Tamil Nadu / तमिल Nadu

**Options:**
A) Kerala / केरल
B) Rajasthan / राजस्थान
C) Madhya Pradesh / मध्य प्रदेश
D) Tamil Nadu / तमिल Nadu

159) The instrument used to measure pressure:
- Manometer / मानोमेटर
- Anemometer / एनेमोमेटर
- Barometer / बारोमेटर
- Thermometer / थर्मोमेटर

**Options:**
A) Anemometer / एनेमोमेटर
B) Barometer / बारोमेटर
C) Thermometer / थर्मोमेटर
D) Manometer / मानोमेटर

160) Eddie Redmayne, won the Oscar (2015) for Best Actor for which film?
- The Theory of Everything / द थर्योरी ऑफ एबरीथिंग
- The Grand Budapest Hotel / ग्रैंड बुडेट्स होटल
- The Imitation Game / इमाइटेशन गेम
- The Theory of Everything / द थर्योरी ऑफ एबरीथिंग
161) Who invented the Safety razor?
A) Gillette / जिलेट
B) Steve Cher / स्टीव चेर
C) Steve Job / स्टीव जोब
D) Lar Strauss / लार स्ट्रूस्स

162) 'Cloud burst' means
A) Formation of artificial rain.
B) Abnormally heavy downpour of rain, associated with a thunderstorm.
C) Presence of scattered flakes of cloud in the sky.
D) Sowing of seeds of a crop in cloudy weather.

163) More than 50% of the world's coal deposits are held by:
A) China, India and Russia / चीन, भारत और रूस
B) China, India and USA / चीन, भारत और अमेरिका
C) India, Russia and USA / भारत, रूस और अमेरिका
D) USA, Russia and China / अमेरिका, रूस और चीन.

164) The intensity ratio of waves is 25 : 9. What is the ratio of their amplitudes?
A) 25 : 9
B) 5 : 3
C) 3 : 5
D) 50 : 18

165) Which was the first talkie film made in India?
A) Raja Harishchandra / राजा हरिशचंद्र
B) Kisan Kanya / किसन कन्या
C) Mother India / मदर इंडिया
D) Alam Ara / आलम आरा

166) How many states are there in the Indian Union?
A) 27
B) 28
C) 29
D) 30

167) Which day is observed as World AIDS Day?
A) March 20th / 20 मार्च
B) December 1st / 1 डिसेंबर
C) March 1st / 1 मार्च
D) December 20th / 20 डिसेंबर

168) When number of turns in a coil is tripled, without any change in the length of coil, its self inductance becomes?
A) one-third / एक-तिहाई
B) six times / छह गुना
C) three times / तीन गुना
D) nine times / नौ गुना

169) Which factor is necessary for the development of democratic institutions?
A) Respect for individual rights / व्यक्तिगत अधिकार
B) A one-party system / एक दलीय व्यवस्था
C) Strong military forces / सशस्त्र सैनिक बल
D) An agricultural economy / कृषि अर्थव्यवस्था

170) Which one of the following is odd?
A) SNMP
B) IMAP
C) SMTP
D) POP
173) Which of the following property of sound is affected by change in air temperature?

A) Amplitude / तरिकता
B) Wavelength / लंबाई
d) Intensity / तारिकता

174) The directive principles incorporated in the Indian Constitution have been inspired by the constitution of:

a) Canada / कनाडा
b) Ireland / म्यूरलैंड
c) USA / अमेरिका

d) Australia / ऑस्ट्रेलिया

175) National Renewable Fund (NRF) was instituted for the purpose of:

a) Rural reconstruction
b) Providing pension for retiring employees
c) Restructuring and modernisation of industries

d) Social security

176) The common name of sodium bicarbonate is:

a) Baking powder
b) Baking soda
c) Soda ash

d) Soda lime

177) Who was Akbar's famous revenue minister?

A) Harayun / हरयून
B) Tansen / तांसेन
C) Todarmal / तोदरमल

178) How many Nobel Prize awards are awarded each year?

A) 8
B) 5
C) 6
D) 10
183) The Indian, who won the Grammy Award 2015 in the new age album category is:

A) Musician Ricky Kej / सृंगेरर रिकी केज
B) Author Neela Vaswani / लेखक नीला वासवानी
C) Singer Kavita Krishnamurthy / गायिका कविता कृष्ण मुर्थि
D) Musician A.R. Rahman / संगीतकार ए.आर. राहमान

184) Phycology is the study of:

A) Algae / आल्ग
B) Lichens / लाइकेन
C) Fungi / कृष्ण
D) Bacteria / बीकाचूरु

185) Who among the following rulers abolished Jaziya?

A) Jahangir / जहांगीर
B) Balban / बलबन
C) Aurangzeb / अaurantजेब
D) Akbar / अकबर

186) A bullet of mass 'm' and velocity 'a' is fired in to a large block of wood of mass 'M'. The final velocity of the system is:

A) \[
\frac{M}{m+M} \ a
\]
B) \[
\frac{m+M}{M} \ a
\]
C) \[
\frac{m}{m+M} \ a
\]
D) \[
\frac{m+M}{m} \ a
\]

187) If there is one million Mg^{2+} ions in MgCl_2, how many chloride ions are there?

A) Ten million / दस लाखियाँ
B) Two million / दो लाखियाँ
C) Half a million / आधा लाखियाँ
D) One million / एक लाखियाँ

188) Which one of the following is not coal variety?

A) Peat / पीट
B) Lignite / लिगनाइट
C) Dolomite / डोलीमाइट
D) Bituminous / कोल्हापुरी

189) Who wrote the famous novel 'The Guide'?

A) Chetan Bhagat / चेतन भागत
B) Arundhati Roy / अरुणधती रॉय
C) R.K. Narayan / आर.के. नारायण
D) Satyajit Ray / सत्यजित रे

190) The non-cooperation movement was called off due to?

A) Jallianwala Bagh Tragedy / जलियांवाला बाग घटना
B) Chauri Chaura Incident / चौरी चौरा घटना
C) Poona pact / पुणा पाक़त
D) Gandhi- Irwin pact / गांधी- इर्विंच पाक़त

191) The idea of parliamentary form of government is adapted from:

A) US / अमेरिका
B) USSR / रूस
C) UK / ब्रिटेन
D) Ireland / आयरलैंड

192) The total utility from 9 units of commodity x is 20 and from 10 units is 15. Calculate the marginal utility from 10^{th} unit.

A) -0.5
B) 0.5
C) 5
D) -5

193) Name the first Asian country to Orbit Mars.

A) Japan / जापान
B) China / चीन
C) India / भारत
D) Pakistan / पाकिस्तान
196) In which year was the first world environment day observed?
A) 1972
B) 1980
C) 1973
D) 1974

197) Pick out the person associated with the coinage of the term 'genet'.
A) Morgan / नामिंगन
B) John / जोन
C) Mendel / मेंडेल
D) Walther / वाल्टर

198) What causes suffocation and death when coal or coke is burnt in a closed room?
A) Ozone / ओजन
B) Carbon / बार्बन
C) Methane / मेथेन
D) Carbon monoxide / बार्बन मोनोक्साइड

199) Which of the following memories must be refreshed many times per second?
A) Dynamic RAM
B) Static RAM
C) ROM
D) EPROM

200) Which U.S. President announced the 'New Deal' for economic recovery in the aftermath of the Great Depression?
A) JF Kennedy / जीएफ जेक्सन
B) Benjamin Franklin / बेनजामिन फर्लैन्क
C) Abraham Lincoln / अब्राहाम लिन्कैन
D) Roosevelt / रूश्ट्रोल
MANNER IN WHICH ANSWERS ARE TO BE GIVEN

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 circle A, B, C or D by Black/Blue Ball-point Pen against the question concerned in the Answer-Sheet.

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) Women
(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 circle by Black/Blue Ball-point Pen in column 'D' against Question No. 'Q' in the manner indicated below:

Question No. 'Q'

There is only one correct answer to each question. You should blacken the circle of the appropriate column, viz. A, B, C or D. If you blacken more than one circle against any one question, the answer will be treated as wrong. Any change / correction in the responses or use of correcting fluid is prohibited.

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