Part I

Mental Ability Test (Q. Nos. 1 to 50)   Max. Marks – 50

Direction: In question no. 1 to 7 each question has four terms. Three terms are alike in some way. One term is different from three others. Find out the correct terms which is different from three others and write its alternative number on your answer sheet against the proper question number-
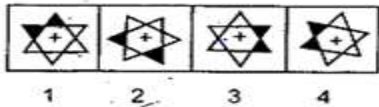
1.

a) B-8	b) J-1000
c) G-343	d) K-1333

2.

a) Steel	b) Brass
c) Mercury	d) Copper

3.

a) DGJM	b) KOSW
c) BEHK	d) ILOR

4.

a) 1	b) 2
c) 3	d) 4

5.
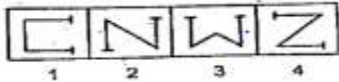
a) 1	b) 2
c) 3	d) 4

6.
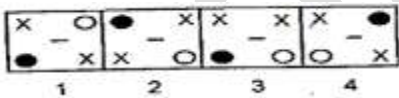
a) 1	b) 2
c) 3	d) 4

7.

a) 1	b) 2
c) 3	d) 4

_____
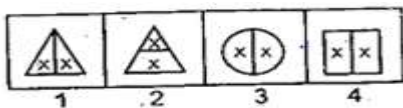
Direction: In question 8 to 14 there are four terms in each question. the terms right to the symbol :: have same relationship as the two terms of the left of symbol :: out of the four terms one terms is missing which is shown by (?) and which is one of the four alternatives given below. Find out the correct alternative and write its number against the corresponding question on your answer sheet-

8. Parliament: Great Britain :: Congress : ?

    a) Canada   b) United States of America
    c) Japan   d) South Korea

9. 6 : 222 :: 8 : ?
    a) 520   b) 596
    c) 496   d) 529

10. CEJP : FGMR :: FKRU : ?

    a) HNVX   b) JNXO
    c) JMVY   d) IMUW

11. Question figure:

    Answer figures:

    a) 1   b) 2
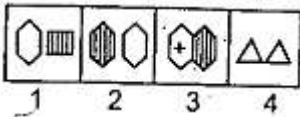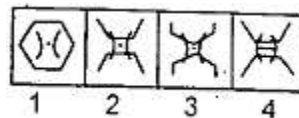   c) 3   d) 4

12. Question figure: Answer Figures:

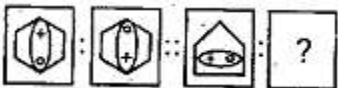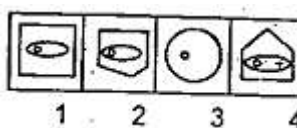   a) 1   b) 2
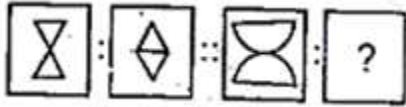   c) 3   d) 4

13. Question figure: Answer Figures:

    a) 1   b) 2
    c) 3   d) 4

_____

_____

14. Question figure:

Answer Figures:
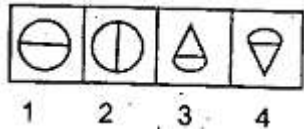
    a) 1   b) 2

    c) 3   d) 4

Direction: Question 15-17 are based on number or letter series. One, two term is missing in each series and indicated by question mark (?) find out the missing terms out of the four alternatives given below and write its alternative number against the correct question number on your answer sheet –

15. 2, 10, 30, 68, 130,?
    a) 240   b) 196
    c) 222   d) 226

16. 16. 6, 2, 12, 6, 20, 12, 30, 20,?, ?
    a) 49, 36   b) 42, 30
    c) 36, 42   d) 48, 54

17. 5, 34, 10, 51, 17, 68, 26,?,?
    a) 102, 39   b) 76, 35
    c) 85, 37   d) 35, 86

Direction: In Question 18-21 problem figures are given at the left hand side consisting four figures in a definite series and the place for fifth figure is vacant which has been shown by question mark (?). Four answer figures are given against each figure and write its alternatives number against the proper question number on your answer sheet –

18.

    a) 1   b) 2
    c) 3   d) 4

19.
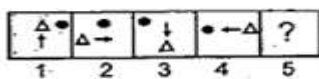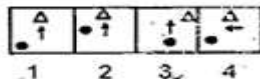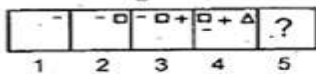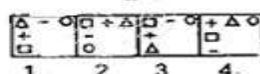
    a) 1   b) 2
    c) 3   d) 4

_____

20.

Problem figures:
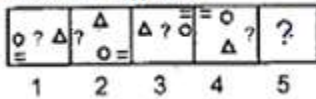
Answer figures:
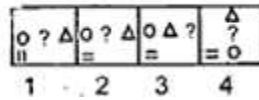
a) 1 b) 2
c) 3 d) 4

21.

Problem figures:

Answer figures:

a) 1 b) 2
c) 3 d) 4
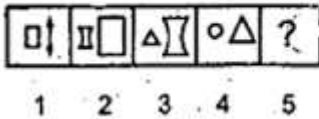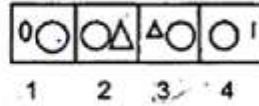
Direction: In question 22 to 28 the letters in column – I are coded in the form of numbers. Which are written in column – II, but the order of numbers is different. Study the code of letters and find out the correct answer for each question from given four alternative and write its numbers. (Alternative numbers) against the proper questions number on your answer sheet –

Column – I	Column – II
EJP	325
REL	143
SOV	769
PRO	645
LOS	176

22. What will be code of OPR -
a) 419 b) 367
c) 654 d) 536

23. What will be code of SLV -
a) 719 b) 576
c) 134 d) 742

24. What will be code of EJL -
a) 763 b) 541
c) 179 d) 321

25. What will be code of RES –
a) 176 b) 437
c) 941 d) 275

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26. If in a code language CLPT written as EOTY. In the same code language FJNR will be written as-
    a) IMPW
    b) GLPV
    c) HMRW
    d) GNRX

27. If in a code language FLNS written as DGLP. In the same code language ILPV will be written as -
    a) FIMS
    b) GINS
    c) HJNR
    d) GHOP

28. If in a code language OMJC written as KJLB. In the same code language TJGE will be written as –
    a) PGED
    b) OGFE
    c) RHFC
    d) SGDE

Direction: Question 29 to 33 are based on letter series, in each question some letters are missing shown by (-). The missing letter are given in a proper sequence as one of the four alternative given under each question. Find out the correct alternative and write its number against corresponding question number on your answer sheet –

29. – – B – TM – BA – MO – A –
    a) MTOBTAM
    b) MOAOTBT
    c) OABTMOA
    d) TMOABTM

30. – TP –N – P ––– PC

    a) CNPTNT
    b) NCPTCN
    c) PNTCPT
    d) NCTCNT

31. – L – C – LM – T –––

    a) CTMCLMC
    b) MCTLMCT
    c) TMTCLMC
    d) TMLCTCL

32. K – C – B – KB –
    a) BKCC
    b) CBKC
    c) BCKB
    d) BCKC

33. — C – BM — B – CK
    a) CMKBMK
    b) BCMKCM
    c) BMKCKM
    d) CBMKBC

Direction: In Question no. 34-38 the equations have become wrong because of the wrong order of signs. Choose the correct order of signs from the four options given below so as to make the equations right. Write the alternative number of the correct option on the answer sheet against the corresponding question number –

34. 24 || 6 || 2 || 6
    a) | || | | |
    b) | | | | | |
    c) | || | | |
    d) | | | | | |

_____

_____

35. 3 || 5 || 7 || 8
     a) | || | | | b) = − ×
     c) = × −   d) ×− =

36. 24 || 6 || 2 || 6
     a) | | | | | | b) ÷+ =
     c) + = ÷   d) +÷ =

37. 6 || 4 || 5 || 29
     a) | || | | | b) = + ×
     c) ×+ =   d) = × +

38. 17 + 7 − 3 = 13
     a) -+ =   b) + = -
     c) - = +   d) = - +

Direction: In Question 39-41 numbers are placed in figure on the basis of some rules. One place is vacant which is indicated as (?). Find out the correct alternative for the vacant place and write its number against the proper question number on your answer sheet-

39.

     a) 27   b) 21
     c) 29   d) 24

40.

     a) 21   b) 26
     c) 15   d) 19

41.

     a) 17   b) 10
     c) 15   d) 18

_____

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Direction: Each of the following questions 42 to 44 has a group of the three words which are related to each other in some way. This relationship can be represented by one of the four figure alternative given in the beginning. Find out the correct figure alternative and write its number against the corresponding questions on your answer sheet –

42. History, Physics, Psychology
   a) 3   b) 4
   c) 1   d) 2

43. Jharkhand, Ranchi, Nagpur

   a) 2   b) 4
   c) 1   d) 3

44. India, M.P., Bhopa
   a) 4   b) 1
   c) 2   d) 3

Direction: In Question 45-47 are based on information given below. Read the following information carefully and answer. The question given below. There are four alternative for each question. Find out the correct alternative and write its number on your answer sheet against the proper question number-
Information -
   a. Radha went to school on Wednesday and Monday.
   b. Suman did not go to school on Saturday.
   c. Seta went to school on Wednesday and Thursday.
   d. Geeta did not go to school on Friday and Tuesday.
   e. Reeta did not go to school on Tuesday, Saturday and Monday.

45. On which day all the girls went to school –
   a) Monday   b) Wednesday
   c) Saturday   d) Tuesday

46. How many girls went to school on Thursday –
   a) Two   b) Four
   c) Three   d)One

47. Which of the girls did not go to school on Monday –
   a) Radha – Suman   b) Seeta – Reeta
   c) Geeta – Radha   d) Suman – Seeta

_____

_____

48. Rohan ranks 7th from the top and 26th from the bottom in class. How many students are there in the Class –

    a) 32   b) 33

    c) 34   d) 27

49. Tarun is the father of Rohit. Rohit is the brother of Kala. Kala is the wife of Dilip. How Dilip is related to Rohit –

    a) Uncle   b) Brother-in-law

    c) Father-in-law   d) Son

50. A man starts from his house walks 2 km towards North. He turns right and walk 3 km. Then he turn left and travels 3 km. What is the direction he is facing –

    a) East   b) West

    c) North   d) South

Part II

Language Comprehensive Test (Q.No. 51 TO 90) Max.   Marks – 40

(Question 51-55): Read the following passage and answer the question that follow-

The sun was getting warm as Philip put on his shoes and prepared to go for a run. At the edge of the lake the ice was still quite hard, and he did not seem to realize there was any danger, but nearer the middle of lake the warm sun had already begun to melt the ice.

After making a few practice turns, Philip set out with long sweeping strides to cross the lake at its widest point. In order to make himself go faster, he tried to race his own shadow as it fell on the ice ahead of him, when he was about half way across, crunch the weak ice suddenly broke beneath his weight, and with a splash he fell through it. All the air was sucked about of his lungs by the shock of the freezing water biting into his body, so that for twenty or thirty seconds afterwards he was not even able to scream. Then at last he found his voice, shouted for help and almost immediately afterwards blacked out.

When he opened his eyes again, he was lying in bed in his own home, with his father bending anxiously over him. You should have known better than to do a silly thing like that, were the first comfortless words he heard after his narrow escape.

51. Philip sketed across the lake –

    a) To save his father   b) For run

    c) Because he was in danger   d) To race someone

52. Philip fell through the ice

    a) At the edge of the lake   b) In any part of the lake

    c) In the middle of the lake   d) On the other side of the lake

53. Which of these statements about the sun is correct? It was

    a) Shining from behind him as he skated   b) Behind him as he skated but not shining

    c) Shining from in front of him as he skated   d) In front of him as he skated but not shining

_____

_____

54. Philip fell into the water because
   a) The lake was too wide
   b) He was too heavy for the ice
   c) All the air was sucked out of his lungs
   d) He made a hole in the ice with the practice turns

55. 'blacked out' means-
   a) It was dark under the water
   b) He put on dark clothes
   c) He got out of the water backwards
   d) He didn't know what was happening to him

(Question 56-60) Read the following passage and answer the questions given below it-

Every reader of this passage must spend the whole of his waking life looking at things, Looking, like breathing, is natural; we do it without noticing it. Looking is passive-but seeing is active. Once you start. Seeing things you really begin to wake up. People who see things which others have only looked at, and seeing, draw conclusions from what they see, can add to man's knowledge and help progress.
Someone recently discovered a place where metal had been worked continuously longer than anywhere else in England. He 'saw' a wall in the Forest of Dean. Thousands of people must have looked at it without really seeing it, but this man noticed that among the usual stones of that place were bits and pieces of a different color, they also felt different to the hand. A closer sight showed that those pieces had been left behind in the fires of ancient peoples who had smelted rocks to get metals. Looking around, he found more and more information, until the history of what men had done at that place over tens of centuries was known.

56. 'his waking life' means
   a) The time when he is waking up   b) All the time he is awake
   c) All the time he is alive   d) All the time he is breathing

57. For this writer 'seeing' means
   a) Noticing things which need explaining   b) Doing something natural
   c) Looking at things   d) Doing something without noticing it

58. The man found a place where
   a) Men are starting to work metal   b) Men built wall of metal
   c) Men smelted metal for tens of centuries   d) Men first learned to make fire with stones

59. The man who 'saw' the wall got more and more information
   a) From thousands of people who had looked at it
   b) From a history book
   c) From the usual stones of that place
   d) From the unusual stones of that place

_____

_____

60. The man's discovery was useful because it gave us more knowledge about
   a) Colors   b) Stones
   c) Walls   d) The forest of Dean

(Question 61-62) In the questions given below, you are provided with the first part of a sentence. The remaining sentence is broken into four parts labeled (P), (Q), (R) and (S). You are required to arrange these parts so as to form a complete meaningful sentence and then choose the correct combination.

61. While arranging shelves –
   P – Where I work
   Q – I came across a book called
   R – at the library
   S – Finding God in Mysterious places
   a) QRPS   b) PQRS
   c) RPQS   d) RQSP

62. We cannot perform –
   P – some principles of science
   Q – I came across a book called
   R – at the library
   S – Finding God in Mysterious places

   a) SRPQ   b) QRPS
   c) RQSP   d) PQRS

(Question 63-64) The following five sentences come from a paragraph. The first and the last sentence are given. Choose the order in which the three sentences (PQR) should appear to complete the paragraph.

63. S1 A rainbow is red on one edge, violet on the other. S2 …………………… ……………………… ………………………… S3 ……………………… ……………………………… ……………………… S4 ……………………… ……………………………S5 Now, although we are unable to see ultra-violet light, bees can do so, for them ultra-violet is a color.

   P – This colour beyond the violet, invisible to us, is called ultra-violet.
   Q – Outside the violet of the rainbow there is another colour which we cannot see at all.
   R – Although it is invisible, we know that ultra-violet is there because it affects a photographic plate.
   Choose from the options given below
   a) PRQ   b) RPQ   c) RQP   d) QPR

64. S1 Nigel had been born an only child
   S2 ……………………… ……………………………… ………………… S3 ……………………… ……………………………… ……………………. S4 ……………………………. ……………………………… ………………………

S5 Nature had made her the sort of person to captain industry or an army, instead, she was Nigel's mother.
   P – While she lived, all decisions about his daily life, his friendship, his fortune, had been taken by that overbearing woman.
   Q – His father had died when he was small, and when his mother, although still not old, died too, he was like a man lost, a car without a steering-wheel, a prisoner set free after a lifetime in prison.
   R – In all things her word had been law

_____

_____

Choose from the options given below
a) RPQ   b) PRQ
c) QPR   d) PQR

(Question 65-69) Choose the word which best fills the blank from the four options given

65. I was out on a morning walk on a quiet, …………………. path which ran through the wood.
a) Separated   b) Isolated   c) Secluded   d) Unusual

66. Everyone was …………………. by a device small enough to fit on a desk –
a) Interested   b) Fascinated   c) Satisfied   d) Scrutinized

67. The previous owner of our house …………… a burglar alarm system in the house but we never used it –
a) Installed   b) Established   c) Executed   d) Implemented

68. Rajeev was discussing his ………………… Flight with his friends when I reached his home –
a) Linking   b) Connecting   c) Joining   d) Arriving

69. What if he ……………… everything and returned the clock which he was still carrying in his bag –
a) Delegated   b) Confiscated   c) Delivered   d) Confessed

(Question 70-75) Select the meaning of the given phrases / idioms

70. A bolt from the blue –

a) A criminal act   b) A shocking event
c) A complete surprise   d) A dangerous deal

71. A hard nut to crack –

a) A bad, tasteless nut   b) A difficult act
c) A person hard to tackle   d) A person difficult to please

72. A man of letters –

a) A scholar   b) A man who knows ABC
c) A literate man   d) An intelligent person

73. From hand to mouth –

a) Leading a simple life   b) Barely making two ends meet
c) Working hard for one's living d) Hardly doing any work

74. In a nutshell –

a) In a lavish lifestyle   b) In a simple way
c) In detail   d) Briefly

_____

_____

75. To get rid of –

    a) To get freedom from   b) To get involved in

    c) To get into difficulty   d) To get comfort from

(Question 76-83) In the following passage there are some numbered blanks. Fill in the blanks by selecting the most appropriate word for each blank from the options given below-

Elizabeth was waiting 76 a bus. She was going to buy a German dictionary and a German grammar

She wanted to learn the language before 78 holiday in Australia. 79 it began to rain. She had neither umbrella not raincoat, and she was soon wet. A man in a car 80 and gave her a 81 into the town. The sun came out again 82. She was in the car, and, when she got out, she stood in the 83 sun till she was dry.

76.

    a) of   b) from

    c) for   d) in

77.

    a) book   b) dairy

    c) register   d) notebook

78.

    a) their   b) her

    c) his   d) its

79.

    a) incidentally   b) accidentally

    c) consequently   d) suddenly

80.

    a) stopped   b) started

    c) supported   d) supplied

81.

    a) a life   b) a book

    c) a dictionary   d) a car

82.

    a) when   b) while

    c) where   d) what

83.

    a) hot   b) bright

    c) warm   d) dull

_____

_____

(Question 84-87) Select the most appropriate option to fill in the blanks from the given alternatives –

84. granny …………….. her book every-where
   a) looked out   b) looked for
   c) looked up   d) looked into

85. the wind blew out the ……………
   a) lamp   b) light
   c) bulb   d) candle

86. I'll think ……………… your idea carefully before I take a final decision
   a) over   b) about
   c) on   d) upon

87. The travelers were delayed because the bus had broken…………………-
   a) out   b) down
   c) away   d) up

(Question 88-90) Select the word which means the opposite of the given word

88. Abundance –
   a) much   b) shortage
   c) enough   d) less

89. Ferocious -
   a) meek   b) wild
   c) brave   d) coward

90. Compulsory -
   a) unwilling   b) mandatory
   c) necessary   d) voluntary

Part III

Aptitude Test (Q. Nos. 91 to 180) Max.   Marks - 90
Subjects   Questions Sl. No.   Marks Allotted:

Subjects	Questions Sl. No.	Marks Allotted
1. Physics	111 to 122 Questions	12 Marks
2. Chemistry	123 to 133 Questions	11 Marks
3. Biology	134 to 145 Questions	12 Marks
4. Mathematics	91 to 110 Questions	20 Marks
5. History	146 to 155 Questions	10 Marks
6. Geography	156 to 165 Questions	10 Marks
7. Political Science	166 to 175 Questions	10 Marks
8. Economics	176 to 180 Questions	05 Marks

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_____

SHADE the circle having the correct alternative in the OMR Sheet provided, from among the ones given against the corresponding question in the Question Paper Booklet. For shading the circles, use HB Pencil.

Physics

91. A body of mass 20 kg. falls through a distance of 50 cm. Then the loss in potential energy is-
    a) 98 Joule
    b) 392 Joule
    c) 980 Joule
    d) 5000 Joule

92. Calorimeters are generally made of-
    a) Copper
    b) Brass
    c) Aluminium
    d) Zinc

93. 1 Calorie is able to raise the temp. of 1 gm. of copper through approximately
    a) 1||C
    b) 5||C
    c) 10||C
    d) 20||C

94. A particle in a medium completes 20 vibrations in 2.5 seconds. The frequency of wave is
    a) 20 Hz
    b) 200 Hz
    c) 50 Hz
    d) 8 Hz

95. The value of 1 Kilowatt power in terms of horse power will be

    a) 1.3 H.P
    b) 746 H.P
    c) 786 H.P
    d) 4.36 H.P

96. A myopic eye can be corrected by using a
    a) Convex lens
    b) Concave lens
    c) Plane mirror
    d) Cylindrical lens

97. In a solution of $CuSO_4$ a piece of ZN is dropped. The solution becomes colourless. This reaction will be
    a) Substitution reaction
    b) Decomposition reaction
    c) Addition reaction
    d) Dissociation reaction

98. Decibel is
    a) A sound apparatus
    b) A sound tone
    c) The unit of intensity of sound
    d) The wave length of noise

99. The renewable source of energy is
    a) Coal
    b) Uranium
    c) Natural gas
    d) Geothermal power

100. The first artificial satellite was

_____

a) Sputnik – 1   b) Explorer – 1
c) Aryabhatta   d) Luna – 3

101.   Titan is the largest moon or satellite of
a) Mars   b) Venus
c) Jupiter   d) Saturn

102.   A concave mirror of focal length is 10 cm produces an image five times large and real. The distance of object from the mirror will be -
a) 10 cm   b) 12 cm
c) 16 cm   d) 20 cm

Chemistry

103.   International unit of atomic weight is
a) Carbon – 12   b) Oxygen – 16
c) Hydrogen – 1   d) Nitrogen – 14

104.   Which of the following isotopes of Uranium is unstable?
a) U-234   b) U-235
c) U-238   d) All of the above

105.   An element have atomic number 19 and mass number 39. The number of neutron in its nucleus is
a) 20   b) 58
c) 19   d) 39

106.   Mass percentage of nitrogen in the compound N_2O_3 is
a) 36.84   b) 46.70
c) 82.40   d) 63.60

107.   A metal M has its Chloride formula MCl_3 and equivalent weight of metal is 9. Atomic weight of element is

a) 9   b) 18
c) 27   d) 3

108.   Atomic weight of an element is 30, its equivalent wt. is 10. The valency of element will be
a) 1   b) 2
c) 3   d) 4

109.   Specific heat of any element is 0.1. The nearest atomic wt. of that element will be
a) 32   b) 64

c) 62   d) 48

110.   The number of molecules in one mole of gas is

a) $6.023 || 10^{23}$ b) $6.023 || 10^{22}$
c) $6.023 || 10^{21}$ d) $6.023 || 10^{20}$

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111. In the given below MnO_2 is catalyst as
   a) Positive Catalyst   b) Negative Catalyst
   c) Auto Catalyst   d) Induced Catalyst

112. How much MgO is obtained on heating 5 gm of $\Box MgCO_3 \Box$Magnesium Carbonate
   a) 2.4 gm   b) 2.38 gm

   c) 2.8 gm   d) 3.28 gm

113. Valency of Cr in $CrPO_4$ is
   a) 4   b) 3
   c) 2   d) 1

Biology

114. Quinaine is obtained from
   a) Bark   b) Fruit
   b) c) Leaves   d) Roots

115. Nocturnal bird is
   a) Pigeon   b) Sparrow
   c) Owl   d) Parrot

116. Body temperature of human body is
   a) 42 || C   b) 40 || C
   c) 34 || C   d) 37 || C

117. Budding is found in
   a) Mango   b) Yeast
   c) Papaya   d) Banana

118. The unit of classification is
   a) Class   b) Order
   c) Species   d) Genus

119. Which of the following is a micronutrient element
   a) Mg   b) K
   c) Ca   d) Zn

120. Penciline obtained from
   a) Cycus   b) Fungi
   c) Fern   d) Algae

121. Cotton fibre is obtained from
   a) Seeds   b) Phloem
   c) Leaves   d) Roots

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122. Vessels are absent in
   a) Pinus wood   b) Shishum wood
   c) Teak wood   d) Sal wood

123. A substance produced in liver which prevents the freezing of blood is called
   a) Ptylin   b) Heparin
   c) Trypsin   d) Insulin

124. Which of the following contains phytochrome
   a) Algae   b) Fungi
   c) Yeast   d) Angiosperm

125. Auxin harmone was discovered by
   a) Vent   b) Moore
   c) Mehta   d) Mendal

History

126. The first governor of the Portuguese in India was
   a) Albuquerque   b) De-Almeida
   c) Vasco-da-Gama   d) Bortholomew Diaz

127. When was the battle of Plassi Fought?
   a) 1526 AD   b) 1556 AD
   c) 1757 AD   d) 1761 AD

128. Rani Laxmibai is associated with city
   a) Kanpur   b) Awadh
   c) Jhansi   d) Delhi

129. The founder of 'Brahm Samaj' was
   a) Rajaram Mohan Rai   b) Swami Vivekanand
   c) Dayanand Saraswati   d) Ramkrishna Paramhans

130. Among the following who is called 'Light of Asia'
   a) Mahavir   b) Buddha
   c) Akbar   d) Ashoka

131. The book written by Gandhiji is
   a) Common will   b) India Wins Freedom
   c) Discovery of India   d) My Experiment with Truth

132. Kabir was disciple of
   a) Ramanand   b) Ramanuja
   c) Tukaram   d) Chaitanya

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133. The attainment of complete Independence was declared as the ultimate goal by Indian National Congress in -
    a) 1929 AD   b) 1939 AD
    c) 1940 AD   d) 1946 AD

134. Cabinet Mission comes to India in
    a) 1945 AD   b) 1946 AD
    c) 1947 AD   d) 1948 AD

135. Who coined the famous slogan 'Inquilab Zindabad'
    a) Ashfaque Ullah Khan   b) Chandra Shekhar Azad
    c) Bhagat Singh   d) Abul Kalam Azam

Geography

136. The southern-most point of India is
    a) Kanya Kumari   b) Indira Point
    c) Point Calimer   d) Rameshwaram

137. Which one of the following states has the longest coast line
    a) Gujarat   b) Maharashtra
    c) Kerala   d) West Bengal

138. On which river is the Hirakud dam constructed
    a) Narmada   b) Godavari
    c) Mahanadi   d) Kaveri

139. 'The valley of Flower' lies in
    a) Jammu and Kashmir   b) Uttarakhand
    c) Himachal Pradesh   d) Kerala

140. The minimum rainfall place in India is
    a) Mathura   b) Delhi
    c) Jaisalmer   d) Leh

141. Laterite Soil is found in
    a) Uttar Pradesh   b) Himachal Pradesh
    c) Kerala   d) Punjab

142. Damodar is tributary of river
    a) Ganga   b) Hugli
    c) Suvarnrekha   d) Yamuna

143. 'Titan' is the largest moon or satellite
    a) Mars   b) Venus
    c) Jupiter   d) Saturn

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144. Longest River in the world is
a) Missisip   b) Kango
c) Nile   d) Ganga

145. Which is the largest populated country in the world
a) China   b) India
c) United State of America   d) Canada

Political Science

146. The first day session of Indian Constituent Assembly was Chaired by
a) Dr. Rajendra Prasad   b) Jawaharlal Nehru
c) B. R. Ambedkar   d) Dr. Sachchidanand Sinha

147. Indian Parliament consists of
a) Lok Sabha and Rajya Sabha
b) Lok Sabha, Rajya Sabha, Prime Minister
c) Speaker, Lok Sabha
d) Lok Sabha, Rajya Sabha, President

148. The maximum number of Anglo Indian who can be nominated to the Lok Sabha are
a) 2   b) 3
c) 4   d) 5

149. The constitution of India was adopted by the constituent Assembly on
a) 15th August, 1947   b) 30th June, 1948
c) 26th November, 1949   d) 26th January, 1950

150. The Chairman of the planning commission is
a) Finance Minister   b) Prime Minister
c) President   d) Governor of Reserve Bank

151. The Maximum strength of Lok Sabha has been fixed
a) 540   b) 545
c) 550   d) 555

152. The Vacancy of the office of the President must be filled up within
a) Ninety days   b) Six months
c) Nine months   d) One year

153. Indian is a secular state is encunciated in
 a) Preamble of the Constitution b) Fundamental Rights
 c) Directive Principal of state policy d) Citizenship provisions

154. The Headquarter of UNO located at
 a) London b) Rome
 c) New Delhi d) New York

155. The first summit of SAARC was held at
 a) New Delhi b) Colombo
 c) Dhaka d) Islamabad

156. Economic planning is a subject of
 a) Union list b) State list
 c) Concurrent list d) Not specified in any list

157. 'Twenty Point Economic Programme' was fixed launched in the year
 a) 1969 b) 1975 c) 1977 d) 1980

158. 'ADHAR' is a programme
 a) To provide identity to Indian residents b) Infrastructure Development
 c) Education d) Social Security

159. The time period of the 12th five year plan is
 a) 2001-07 b) 2012-17
 c) 2010-15 d) 2007-12

160. The standard of living in a country is represented by
 a) National income b) Poverty Ratio
 c) Unemployment rate d) Per Capita income

161. If α and β are the zeroes of the polynomial $f(x) = x^2 - 5x + k$ such that α –β=1 , the value of K -
 a) 12 b) 6 c) 4 d) 1

162. If (x+2) is a factor of the polynomial $f(x) = x^2 + ax + 2b$ and a+b=1, then the value of a and b are-
 a) a=1, b=3 b) a=3, b=1 c) a=-1, b=5 d) a=5, b=-1

163. If $1^3 + 2^3 + ... + 9^3 = 2025$ then $(0.11)^3 + (0.22)^3 + ... + (0.99)^3$ will be -
 a) 0.2695 b) 2.695 c) 3.695 d) 0.3695

164.

If $\tan\theta + \dfrac{1}{\tan\theta} = 2$ then the value of $\tan^2\theta + \dfrac{1}{\tan^2\theta}$ will be-

    a) 4   b) 2   c) 1   d) 8

165. If $\text{Sec } 2A = \text{Cosec }(A - 42^0)$ where 2A is acute angle then value of A is
    a) 44^0 b) 22^0
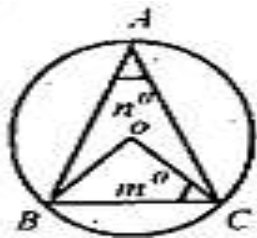   c) 21^0 d) $66°$

166.

If $\dfrac{Cos\theta - Sin\theta}{Cos\theta + Sin\theta} = \dfrac{1-\sqrt{3}}{1+\sqrt{3}}$ then θ is

    a) 30^0 b) 45^0 c) 60^0 d) 90^0

167. If $Cot\ Co\sec 2$, then the value of
    a) 2   b) 4   c) ½   d) ¼

168. In the following figure O is the center of circle and

    a) $m^0 + n^0 = 90^0$ b) $m^0 + n^0 = 180^0$ c) $m^0 + n^0 = 120^0$ d) $m^0 + n^0 = 150^0$

169. In given figure AB || CD, ABE = 120^0, DCE = 110^0 and BEC = x^0 then x^0 will be-

    a) 60^0 b) 50^0 c) 40^0 d) 70^0
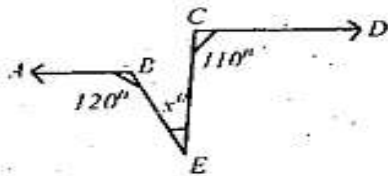
170. In the following figure PQR is-

    a) 60^0 b) 80^0 c) 100^0 d) 120^0
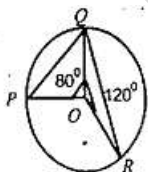
171. If x is the mean of the terms $x_1, x_2, x_3, \ldots, x_n$ and $x = x_1 + x_2 + x_3 + .. + x_n$ then the value of x-nx is

    a) 0   b) 1   c) n   d) x

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172. Point P divides the line segment joining the points A (2, 1) and B (5, -8) such that AP/AB = 1/3. If P lines on the line 2x+y+k=0 then the value of K is-
    a) -4
    b) 4
    c) -3
    d) 3

173. A copper wire 3 mm in diameter is rounded about a cylinder whose length is 1.2 m and diameter is 10cm, so as to cover the curved surface of the cylinder. The length of the wire is-
    a) 126 m
    b) 125.6 m
    c) 12.56 m
    d) 1.256 m

174. Relation among mean, median and mode is-
    a) Mode = 3 median + 2 mean
    b) Mode = 3 median – 2 mean
    c) Mode = 3 median + 3 mean
    d) Mode = 2 median – 3 mean

175. The area of the figure formed by the inter section of lines x=0, y=0, x=3, y=4 will be-
    a) 3 sq. unit
    b) 4 sq. unit
    c) 6 sq. unit
    d) 12 sq. unit

176. If $2^{x+1} + 2^{x+1} = 320$ then the value of x is-
    a) 6
    b) 8
    c) 5
    d) 7

177.

If $x + \dfrac{1}{x} = 2$ then $\sqrt{x} + \dfrac{1}{\sqrt{x}}$ will be-

    a) $\sqrt{2}$
    b) 2
    c) $\sqrt{2} + 1$
    d) 1

178. What is the value of P for which (a-2) is factor of $a^2 - 5a + P$ -
    a) 2
    b) 3
    c) 5
    d) 6

179. A person wishes to fit three rods together in the shape of a right angled triangle so that the hypotenuse is to be longer 4 cm than the base and 8 cm longer than the altitude. The lengths of the rods are-
    a) 3 cm, 4 cm, 5 cm
    b) 1.5 cm, 2 cm, 2.5 cm
    c) 6 cm, 8 cm, 10 cm
    d) 12 cm, 16 cm, 20 cm

180. If x + y = 8, xy = 15, then the value of $x^2 + y^2$ will be -
    a) 32
    b) 34
    c) 36
    d) 38