GOA HEADMASTERS ASSOCIATION, GOA.

**202 RAYU CHAMBERS,
PANAJI, GOA 403 001.**

प्रज्ञासंवर्धनाय
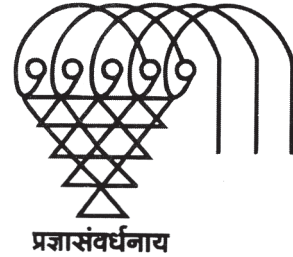
GOA TALENT SEARCH EXAMINATION - 2019-20

Std. VII

**PAPER I - MENTAL ABILITY TEST
Q. NOS. 1 TO 100**

**PAPER II - SCHOLASTIC APTITUDE TEST
Q. NOS. 101 TOM 200**

TIME : 10.00 a.m. to 1.00 p.m.

DATE : 2nd February 2020

THIS PAPER CONTAINS 14 PAGES.

1) One morning after sunrise, Geeta and Sita were standing alone with their backs towards each other. Geeta's shadow fell exactly towards left hand side, which direction was Sita facing?
   (1) East   (2) West
   (3) North   (4) South

2) Ram started walking towards east and walked 40 m. He then turned towards right and walked 30m, then turned towards left and walked 20m and again turned towards left and walked 30m. How far is he from the starting point?
   (1) 60m   (2) 70m
   (3) 90m   (4) 120m

3) In a group of 20 people, 10 can read Marathi, 8 can read Konkani while 5 of them can't read both of these. How many can read both Marathi and Konkani.
   (1) 3   (2) 5
   (3) 8   (4) 10

Directions: (Questions 4 to 6):In a school following codes were used during Physical exercise, 1 means 'start walking', 2 means 'keep standing', 3 means 'start jumping' and 4 means 'sit down'.
   1 2 3 1 2 3 4 2 1 3 4 4 1 2 1 3 3 2 2 1 3 4
   The students perform the above sequence without error, from the beginning to the end, then answer the following questions:

4) How many times the students will sit after Jumping?
   (1) 1   (2) 2
   (3) 3   (4) 4

5) How many times student will jump after walking?
   (1) 1   (2) 2
   (3) 3   (4) 4

6) How many times students will have to sit down?
   (1) 1   (2) 2
   (3) 3   (4) 4

7) How many triangles are there in the given figure?
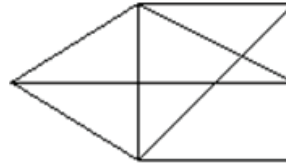
   (1) 15   (2) 14
   (3) 13   (4) 12

8) Pointing out to a lady Ranjan said "She is the daughter of the women who is the mother of the husband of my mother." How is the lady related to Ranjan?
   (1) grand daughter   (2) daughter
   (3) sister - in - law (4) aunt

9) Arrange the following in meaningful order
   I. paper   II. Library   III.Author   IV.Publisher
   V. Book   VI. Pen
   (1) II, IV, III, VI, I, V   (2) III, II, IV, I, V, VI
   (3) III, VI, I, IV, V, II   (4) III, VI, I, V, IV, II

10) If day before yesterday was Friday, the day after Tomorrow will be
   (1) Sunday   (2) Monday
   (3) Tuesday   (4) Wednesday

Directions: (Questions 11 to 14): The questions given below are based on the following venn diagram. Refer the ven diagram and select and write the correct answer.

   (1)   (2)   (3)   (4)
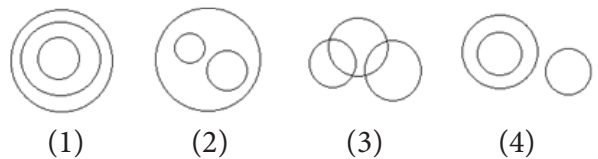
(11) Artists, Men, Women

(12) Athletics, High Jump, Cricket

(13) Flying objects, Crow, Birds

(14) School, Teachers, Students

Directions: (Questions 15 to 20): In the following questions, find the missing term in the series from amongst the alternatives given under each question and mark its alternative number on the answer sheet against the corresponding question number :

15) 1, 2, 2, 5, 3, 10, 4 _____
   (1) 7   (2) 8
   (3) 14   (4) 17

16) 1, 0, 3, 2, 5, 4, _____
   (1) 6   (2) 7
   (3) 8   (4) 9

17) 5, 10, 105, 100, 1005, _____
   (1) 995   (2) 1005
   (3) 1000   (4) 10000

18) 4, 20, 100, 500, _____
   (1) 1000   (2) 2000
   (3) 2500   (4) 3000

19) 100, 200, 119, 183, _____ , 170
   (1) 134   (2) 140
   (3) 130   (4) 142

20) 15, 18, 23, 30, 39, ____
   (1) 48   (2) 50
   (3) 59   (4) 63

Directions: (Questions 21 to 25): In each of the following questions. There is a series of letters/numbers. Work out the pattern and Fill in the missing letters to complete the rhythmic series.

21) a b _ a a b _ _ a b c _ _ b c?
   (1) b a a a a   (2) c c a a a
   (3) c b a b c   (4) a b c a b

22) x y _ x _ y x _ _ x x _
   (1) x y x y x   (2) x x y y x
   (3) y x y y y   (4) y x x y y

23) r r _ r s _ _ r r r
   (1) r s s s   (2) r r s s
   (3) r s r s   (4) s r r r

24) _ q _ r p _ q _ p
   (1) p r p r   (2) q r p r
   (3) p r r q   (4) p r q r

25) 1 O _ 1 _ B 1 O _ 1 O
   (1) A 1 C D   (2) A O C 1
   (3) A 1 O 1   (4) A O C D

26) If PALE is coded as 2134, EARTH is coded as 41590, how is PEARL coded in that code?
   (1) 29530   (2) 25430
   (3) 24153   (4) 25413

27) If CAA is coded as 242626 and NPR coded as 131109 than how is NCR coded in that code?
   (1) 132409   (2) 140318
   (3) 130309   (4) 142418

28) In a certain code language the word NUMERICAL is written as LMUIREACN, How will the word PUBLISHED be written in that language ?
   (1) DUBSILEHP   (2) DBULISEHP
   (3) DUBILSEHP   (4) DBUSILEHP

29) If in a certain language HARA is written as JCTC, then JITA can be written as ?
   (1) IHSZ   (2) KJUB
   (3) LKVC   (4) MLWE

30) In a certain code language MEAL is written as ® @ ø ● and LEAD is written as ● @ ø #. Then how is DEAL written in that code language?
   (1) @ ® ø ●   (2) # @ ø ●
   (3) # ● ø @   (4) @ ø ® ●

Direction: (Questions 31 to 33): In the question given below, four figures (1), (2), (3) and (4) have been given in each question. Out of these four figures, three figures are similar in some way and one figure is different. Select the figure which is different and write your answer in the box against the number corresponding to the question.

31)

   (1)   (2)   (3)   (4)

32)

(1)   (2)   (3)   (4)

33)

(1)   (2)   (3)   (4)
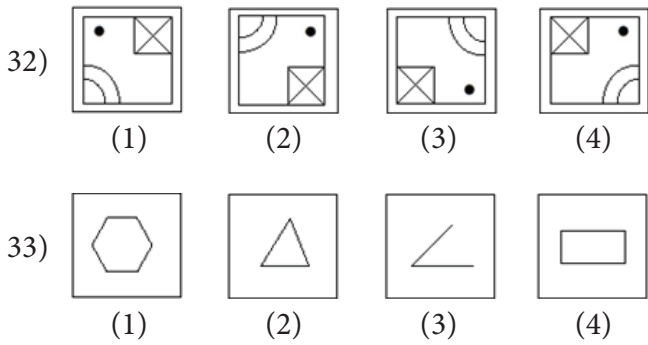
Direction: (Questions 34 to 41): There is some relationship between the pairs of numbers/ letter/words on the left hand side of : : The same relationship is between two such pairs on the right hand side of : : Find the missing one from amongst the given alternatives.

34) Carpenter : Wood :: Cobbler : ?
   (1) Shoe   (2) Leather
   (3) Nail   (4) Thread

35) Lord Ram : Ayodya :: Mahatma Gandhi : ?
   (1) Ahmedabad   (2) Dwarka
   (3) Porbandar   (4) Gandhinagar

36) 48 : 122 :: 168 : ?
   (1) 290   (2) 292
   (3) 286   (4) 278

37) 63 : 77 :: ? : 105
   (1) 84   (2) 91
   (3) 99   (4) 104

38) CAT : DDY :: BIG : _____
   (1) CLL   (2) CLM
   (3) CML   (4) CEP

39) AF : KP :: FK : _____
   (1) GL   (2) OX
   (3) TY   (4) PZ

40) EHK:VSP :: GJM:_____
   (1) TQN   (2) ZWT
   (3) ADG   (4) PSV

41) EVTG:HSQJ :: CXVE : _____
   (1) EVUF   (2) FSUN
   (3) FUSH   (4) FUTG

42) A monkey ascends a greased pole 21 m high. In the first minute he ascends 5 m and in the next minute he descends 3 m. If he continues this process, in how many minutes will he reach the top?
   (1) 17 minutes   (2) 10.5 minutes
   (3) 21 minutes   (4) 40 minutes

Direction: (Questions 43 to 47): Study the following information carefully and answer the questions given below:-

(I) K, G, P, H, R and W are six managers in an organization of six different departments of Administration, Accounts, Printing, Personal, Computer and Publication not necessary in the same order. Each of them sits on six different floors of I, II, III, IV, V and VI and also not necessary in the same order.

(II) P sits on IIIrd floor and is not in either personal or printing G and R are in Administration and computer respectively. H and W sits on IVth and Vth floor respectively. The manager of computer department sits on 1st floor.

43) Who works in Personal?
   1) H   (2) W
   (3) H or W   (4) Data Inadequate

44) On which floor does K sit?
   (1) Ist (2) IInd
   (3) IVth (4) Data Inadequate

45) Who is the manager of Accounts department?
   (1) P   (2) H
   (3) K   (4) Data Inadequate

46) Which of the following combination of manager and department definitely correct?
   (1) G – Personal   (2) W – Personal
   (3) H - Printing   (4) None of these

47) If H is manager in Personal, which of the following combination of department and floor is correct ?
   (1) Printing – I st
   (2) Administration – IIIrd
   (3) Printing – Vth (4) Computer–IInd

48) Destroy is related to 'Create' as 'Love' is related to _____ ?
   (1) Emotion   (2) Hate
   (3) Soul   (4) Flow

Direction: (Questions 49 to 51): In the following figure, the circle represents farmers, the triangle represents educated persons and the rectangle represents rural persons. Study the figure carefully and answer the following questions.
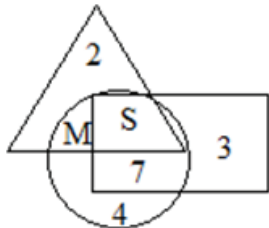
49) Which of the following represents educated farmers?
   (1) 4 and M   (2) M and 7
   (3) S and M   (4) 7 and S

50) The region which represents farmers in rural area is denoted by ____
   (1) 4   (2) 7
   (3) 3   (4) S

51) If there are 27 rural persons in the group, then what is the value of S?
   (1) 10   (2) 17
   (3) 37   (4) 14

Direction: (Questions 52 to 54): In the questions given below, a question figure is given on the left hand side marked as X and four answer figures marked (1), (2), (3), (4) are given on the right hand side. Select the answer figure which is exactly the same as the question figure and write your answer in the box against the number corresponding to the question.

52)

   X   (1)   (2)   (3)   (4)

53)

   X   (1)   (2)   (3)   (4)

54)

   X   (1)   (2)   (3)   (4)
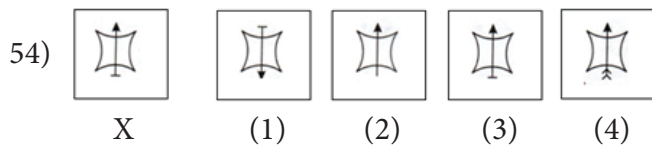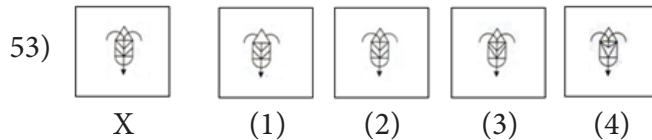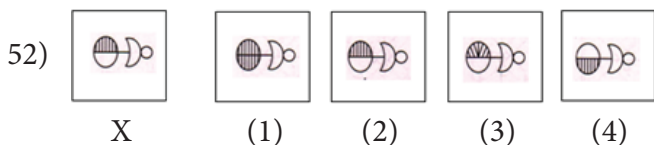
Direction: (Questions 55 to 59): Study the following information carefully and answer the questions given below it,

In a group of five persons A, B, C, D and E
   I.   B and C are intelligent in Mathematics and Geography
   II. A and C are intelligent in Mathematics & History.
   III. D and E are intelligent in Political Science and Biology.
   IV. B and D are intelligent in Political Science and Geography.
   V.   E is intelligent in Biology, History and Political Science

55) Who is intelligent in Political Science, Geography and Biology?
   (1) E   (2) D
   (3) C   (4) B

56) Who is intelligent in Mathematics, Political Science and Geography?
   (1) A   (2) B
   (3) C   (4) D

57) Who is intelligent in Mathematics and History but not in Geography?
   (1) A   (2) B
   (3) C   (4) E

58) Who is intelligent in Mathematics, Geography and History?
   (1) A   (2) B
   (3) C   (4) D
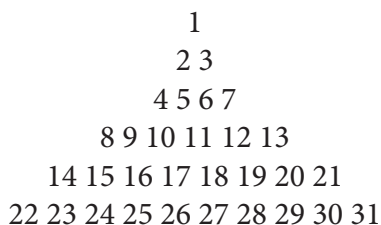
59) Who is intelligent in Political Science, History and Biology?
   (1) A   (2) B
   (3) C   (4) E

60) Reena is twice as old as Sunita. Three years ago, she was three times as old as Sunita. How old is Reena now?
   (1) 6 yrs   (2) 7 yrs
   (3) 8 yrs   (4) 12 yrs

Direction: (Questions 61 to 63): Observe the pyramid of numbers and answer the questions given below

                    1
                   2 3
                 4 5 6 7
              8 9 10 11 12 13
           14 15 16 17 18 19 20 21
         22 23 24 25 26 27 28 29 30 31

61) 16 : 19 : : 4 : ____
   (1) 6   (2) 7
   (3) 8   (4) 16

62) 8;16 : 10;26 :: 13 ; 27 : _____
   (1) 12 ; 28   (2) 11 ; 27
   (3) 4 ; 25   (4) 7 ; 28

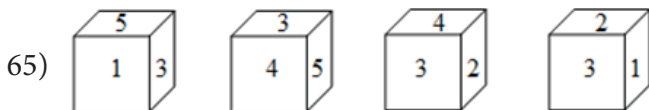63) 8 ; 15 ; 16 : 13 ; 20 ; 19 :: 14 ; 23; 24 : _____
   (1) 4 ; 9 ; 10   (2) 16 ; 25 ; 26
   (3) 20 ; 29 ; 30   (4) 21 ; 30 ; 29

Direction: (Questions 64 to 68): In each of the following questions, four positions of dice are shown. carefully observe each set of dice and find the correct alternatives in each case.
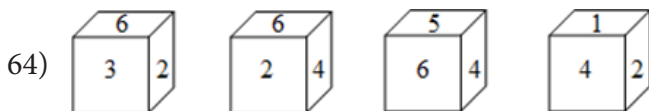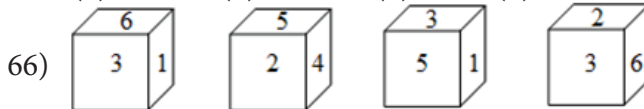
64)
   Which number is on the face opposite to 6?
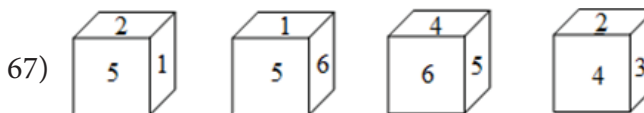   (1) 1   (2) 2
   (3) 3   (4) 4

65)

What number is opposite to 4?
(1) 1   (2)   2   (3) 5   (4) 6
66)
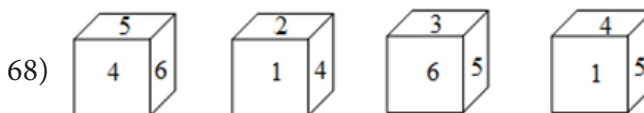
What number is opposite to 3?
(1) 1   (2) 2
(3) 4   (4) 6
67)

Which number is on the face opposite to 6?
(1) 1   (2) 2
(3) 3   (4) 5

68)

What number is opposite to 3?
(1) 1   (2) 2
(3) 4   (4) 6

Direction: (Questions 69 and 70): In a peculiar mathematical operations, before any operations are done, the numbers are changed as per the following rule.

   2, 4, 6, 8 changed to 1
   1, 3, 5, 7, 9 changed to 0
   0 is changed to 2
   By using above direction find the answers of each of the following:

69) 2568 + 3256 − 1306 − 5832
   (1) 0990   (2) 2002
   (3) 1001   (4) 0101

70) 1101 + 0101 − 011 − 1001
   (1) 1212   (2) 2020
   (3) 1001   (4) 0101

Direction: (Questions 71 to 74): The numbers are obtained by using one of the rules given below. Identify and write the correct rule for each of the given group of numbers.

1. Square a number and add double of the number.
2. Cube a number and subtract one.
3. Multiply a number by five and add three.
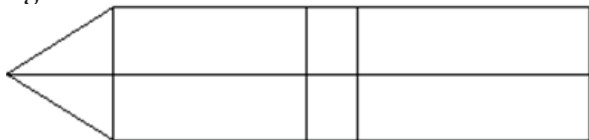4. Divide the number by five, add one to the quotient and square it.

71) 15, 24, 35, 48

72) 7, 26, 63, 124

73) 36, 64, 100, 144

74) 13, 18, 23, 28, 33

75) How many rectangles are there in the given figure?

(1) 16   (2) 17
(3) 18   (4) 19

76) In a code language, 'tee see pee' means, 'drink fruit juice' , 'see kee lee , means 'juice is sweet' and 'lee ree mee' means 'he is intelligent'. Which word stands for 'sweet' in that language?
(1) see   (2) kee
(3) lee   (4) pee

Direction: (Questions 77 to 82): In each of the following figures, the numbers are arranged according to certain rule. Find the missing number in place of ?from the alternatives given.

77)
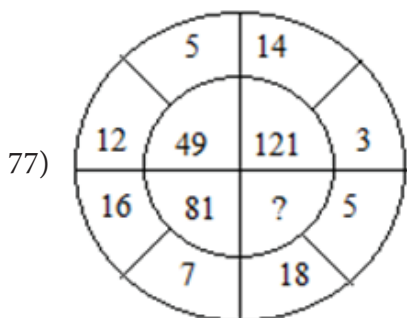
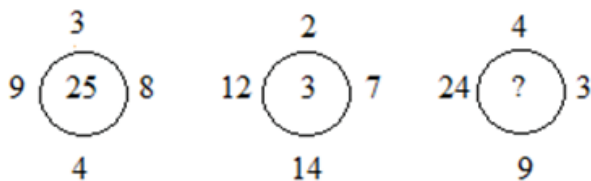(1) 144   (2) 100
(3) 169   (4) 225

78)

2	17	59
31	47	5
11	?	23

(1) 29   (2) 37
(3) 43   (4) 41

79)

24	23	28
41	39	?
15	18	9

(1) 33   (2) 43
(3) 37   (4) 45

80)

(1) 1   (2) 2
(3) 5   (4) 7

81) $\frac{2\ |\ 1}{3\ |\ 6}$ $\frac{2\ |\ 4}{3\ |\ 9}$ $\frac{1\ |\ 2}{2\ |\ ?}$
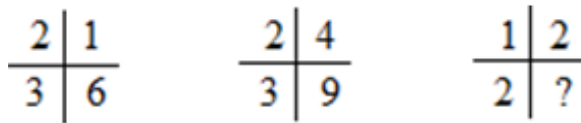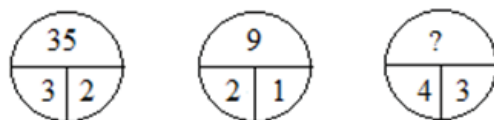
(1) 4   (2) 6
(3) 3   (4) 5

82)


(1) 51   (2) 81
(3) 91   (4) 61

Direction: (Questions 83 and 84): If (+) and (−) are interchanged, (×) and (÷) are interchanged (2) and (4) are interchanged then which of the following is correct.

83) (1) 24 ÷ 6 = 4   (2) 86 + 24 = 108
    (3) 24 × 5 = 100   (4) 42 − 54 = 78

84) (1) 24 × 6 = 4   (2) 24 ÷ 6 = 252
   (3) 24 + 50 = 92   (4) 24 − 30 = 12

Direction: (Questions 85 and 86): In the questions given below, one part of a geometrical figure (triangle, circle, square) is on the left hand side marked as X and the other one is among the four answer figures (1), (2), (3), (4) on the right hand side. Find the figure on the right hand side that complete the geometrical figure and write the number given below that figure in the box against the number corresponding to the question.

85)

    X   (1)   (2)   (3)   (4)

86)

    X   (1)   (2)   (3)   (4)
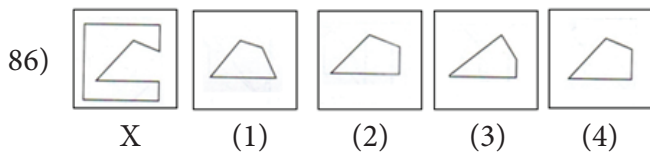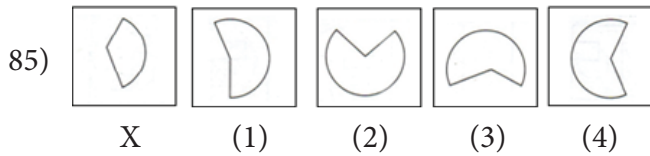
87) If $25 × 25 = 1$; $5 × 35 = 7$; $1 × 12 = 12$
Then what is the value of $15 × 15 = ?$
(1) 15   (2) 30
(3) 1   (4) None of these.

88) If $35 × 27 = 5732$; $12 × 36 = 2613$
then $27 × 89 = $____
(1) 7928   (2) 2879
(3) 2978   (4) 2789

Direction: (Questions 89 and 90): A part of the figure marked X is missing. The missing part is given among the four alternatives. Select and write the correct answer.

89)

    X   (1)   (2)   (3)   (4)

90)

   X   (1)   (2)   (3)   (4)
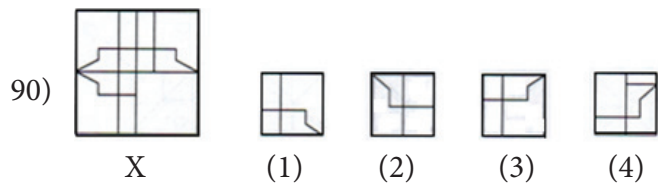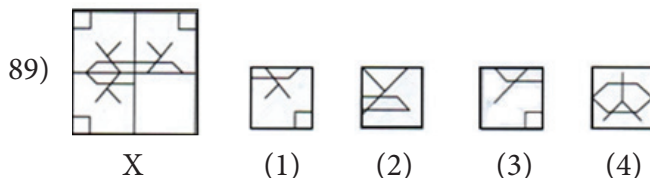
Direction: (Questions 91 and 92): In the question given below, there are three question figures and the space for the fourth figure is left blank. The question figures are in a series. Find out one figure from among the answer figures given below, which occupies the blank space for the fourth figure and complete the series. Indicate your answer by the number of the answer figure chosen by you in the box against the number corresponding to the question.

91)

    (1)   (2)   (3)   (4)

92)

    (1)   (2)   (3)   (4)
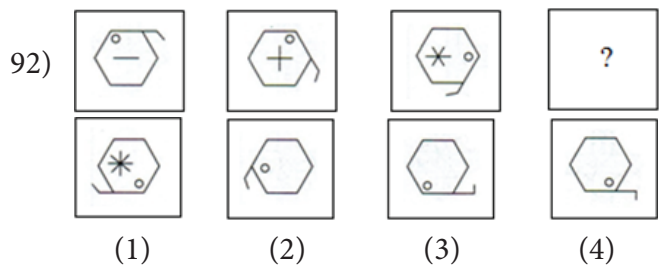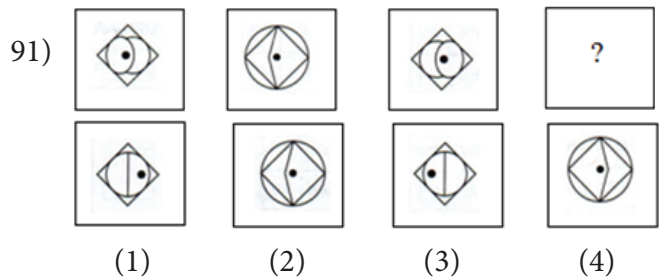
Direction: (Questions 93 and 94): In the question given, there are two sets of two question figures each. The second set has an interrogation (?). There exists a relationship between the first two question figures. Similar relationship should exist between the third and fourth question figures. Select one of the answer figures which replaces the mark of interrogation. Write the number of the answer figure selected by you in the box against the number corresponding to the question.

93)

    (1)   (2)   (3)   (4)

94)

(1) (2) (3) (4)
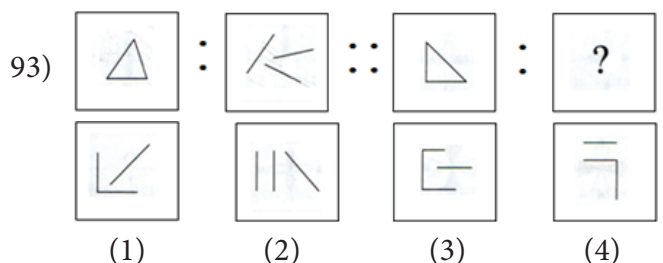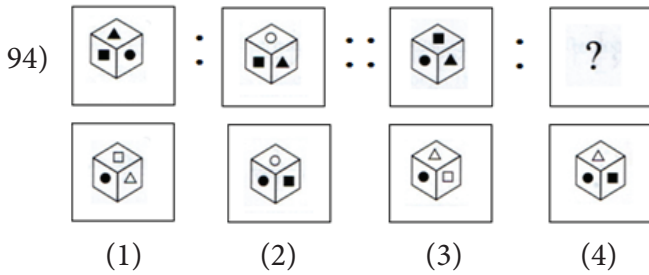
Direction: (Questions 95 and 96): In each question choose the correct mirror image of Fig. (x) from amongst the four alternatives given along with it :

95)

X (1) (2) (3) (4)

96)

X (1) (2) (3) (4)

Direction: (Questions 97 and 98): In the questions given below, a piece of paper is folded and punched as shown in the question figures and four answer figures are marked (1), (2), (3),(4) are given below. Select the answer figure which indicates how the paper will appear when opened (unfolded). Indicate your answer by the number of the answer figure chosen by you in the box against the number corresponding to the question.
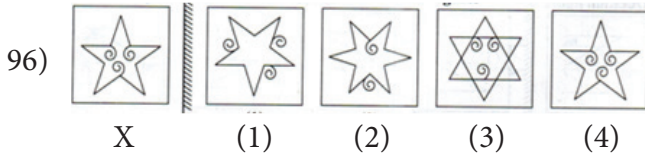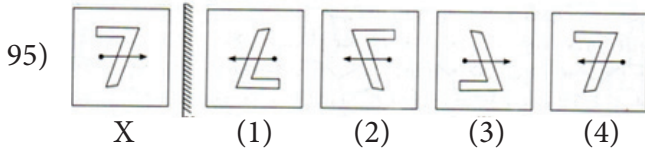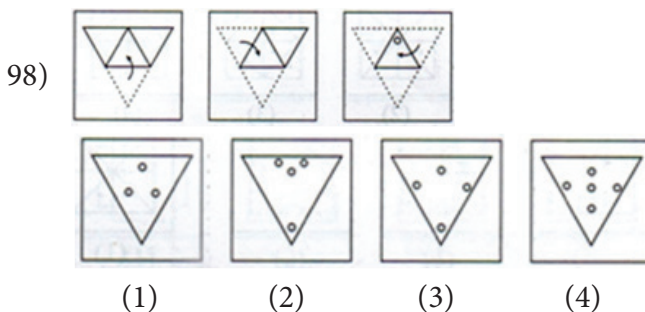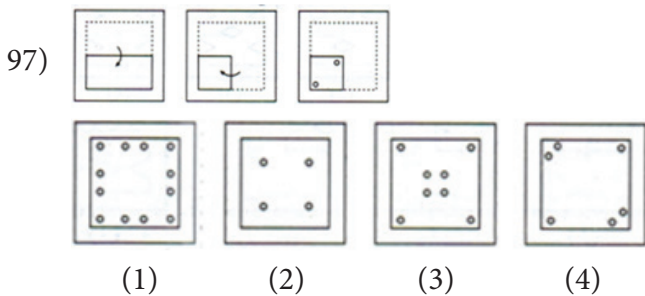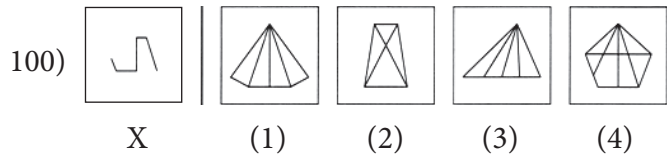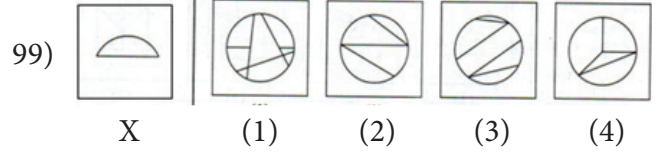
97)

(1) (2) (3) (4)

98)

(1) (2) (3) (4)

Direction: (Questions 99 and 100): In the questions given below, a question figure is marked as 'X' and four answer figures marked (1), (2), (3), (4) are given below. Select the answer figure in which the problem figure is hidden/ embedded and write your answer (i.e. 1, 2, 3, 4) in the box against the number corresponding to the question.

99)

X (1) (2) (3) (4)

100)

X (1) (2) (3) (4)

101) In India, Rice was first grown in _____ .
1) North of Vindhyas
2) Sulaiman hills
3) the Garo hills
4) On the banks of the Ganga

102) Grasslands led to an increase in _____ .
1) aquatic life   2) birds
3) herbivorous animals
4) human beings

103) Which was not a way of storing grains in the early days?
1) Woven baskets   2) Boxes
3) Clay pots
4) Pits in the ground

104) The Great Bath has been discovered in ____ .
1) Harappa   2) Mohenjodaro
3) Lothal   4) Kalibangan

105) The Vinaya Pitaka is a sacred text of _____ .
1) The Hindus   2) The Jainism
3) The Buddhist   4) The Sikhs

106) In which language is Harshacharita written?
1) Hindi   2) Sanskrit
3) Bengali   4) Marathi

107) Name the tribe which was attacked and defeated by Raja Man Singh in the year 1591.
1) Ahoms
2) Gonds
3) Nagas
4) Cheros

108) The Mongol ruler who invaded Transoxiana in 1219 is _____ .
1) Mahammad Tughlaq
2) Alauddin Khaji
3) Genghis Khan
4) Ibraham Lodi

109) Tripartite Struggle was fought between Gurjara Pratihara, Rashrakutas and Palas to control the city of Kanauj in the _____ .
1) Ganga Valley
2) Brahmaputra Valley
3) Indus Valley
4) Narmada Valley

110) Delhi become an important commercial centre under _____ rulers.
1) Tomara and Chauhanas
2) Khalji and Tughluq
3) Sayyid and Lodi
4) Mughals and British

111) The Mughal Emperor who annexed Golconda fort in 1686-1687 was _____.
1) Akbar
2) Aurangazeb
3) Shah Jahan
4) Jahangir

112) The term 'Hindustan' used for the first time by ___.
1) Al-ldrisi
2) Amir Khusrau
3) Ziyauddin Barani
4) Minaj-i-Siraj

113) The Dutch established a settlement at _____ .
1) Hampi
2) Surat
3) Masulipatnam
4) Thanjavur

114) Garh Katanga earned huge wealth by _____ .
1) exporting horse
2) exporting elephants
3) exporting one horned rhino
4) exporting bullocks

115) The Ahom introduced new method of ____ .
1) rice cultivation
2) transportation
3) irrigation
4) fishing

116) The best known Chahamanas ruler was ____.
1) Rajaraja I
2) Prithviraj III
3) King Vijayalaya
4) King Harshavardhana

117) The language of administration under Delhi Sultan was _____ .
1) Hindi
2) Urdu
3) Arabic
4) Persian

118) The term Suffrage means _____ .
1) Right to education
2) Right to vote
3) Right to livelihood
4) Right to go anywhere in the country

119) The work of the Gram Panchayat has to be approved by the
1) Elected ward members
2) Gram Sabha
3) ZilaParishad
4) Sarpanch of the Village Panchayat

120) The person who maintains and updates land records of the village is_____ .
1) Secretary
2) Patwari
3) Tehsildar
4) Block Development Officer

121) Which one is not the job of the Municipal Corporation?
1) to keep the street and markets clean
2) to make garden and maintain them
3) to build hotels for the tourist
4) to run schools, hospitals and dispensaries

122) The head of the state executive is _____.
1) Chief Minister
2) Governor
3) Speaker of the legislative assembly
4) Judge of the High Court

123) Every year International Women's Day is celebrated on _____ .
1) 30th May
2) 8th March
3) 22nd February
4) 15th April

124) The Samoan Island is situated in the Southern _____ .
   1) Atlantic Ocean
   2) Arctic Ocean
   v) Pacific Ocean
   4) Indian Ocean

125) Minimum age for the Indian citizens who are eligible for voting right is _____ .
   1) 25 years   2) 21 years
   3) 18 years   4) 16 years

126) Name the main minerals constitute in the continental mass _____ .
   1) Silica and Alumina
   2) Silica and Magnesium
   3) Nickel and Iron
   4) Nickel and magnesium

127) Which is an example of igneous rocks?
   1) Marble   2) Granite
   3) Sandstone   4) Slate

128) What is the most important features of Stratosphere?
   1) Meteorites burn up in this layer
   2) All weather phenomenon occur in this layer
   3) This layer contains a layer of Ozone gas
   4) This layer helps in radio transmission

129) Monsoon in India is an example of _____ .
   1) Permanent winds
   2) Seasonal winds
   3) Local winds
   4) None of the above

130) Which is not a threat to environment?
   1) Growing plant
   2) Growing population
   3) Growing industries
   4) Growing transport

131) Moraine is the depositional features of ____.
   1) River   2) Wind
   3) Sea Waves   4) Glaciers

132) Lithospheric plates move due to the _____ .
   1) lighting and thundering
   2) molten magma inside the earth
   3) gravitational pull of Moon and Sun
   4) Weather phenomenon

133) During Photosynthesis green plants produce _____
   1) Nitrogen   2) Oxygen
   3) Carbon dioxide 4) Ozone

134) Which Island groups were affected by the Tsunami in 2004?
   1) Lakshadweep
   2) Maldives
   3) Andaman and Nicobar
   4) Caribbean

135) It is the mountain range of the South America.
   1) The Alps
   2) The Rockies
   3) The Andes
   4) The Himalayas

136) Full moon night occurs once every _____ .
   1) Day   2) 15 days
   3) 21 days   4) Month

137) Which of the following planet has a ring around it?
   1) Mercury   2) Venus
   3) Jupiter   4) Mars

138) The heat zone with the coldest climate is _____ .
   1) Torrid zone
   2) Frigid zone
   3) North temperate zone
   4) South temperate zone

139) The axis is parallel to the _____ .
   1) Equator   2) Prime Meridian
   3) Latitudes   4) All of these

140) It is Spring in the Northern hemisphere and autumn in the southern hemisphere on ____.
   1) 21st March   2) 21st June
   3) 23rd September 4) 22nd December

141) Pitcher plant traps insects because it _____ .
   1) has a digestive system like human beings.
   2) does not have chlorophyll.
   3) is a heterotrophy
   4) grows in soils which lacks in nitrogen

142) The term that is used for the mode of nutrition in yeast, mushroom and bread mould is _____ .
   1) Autotrophic
   2) Insectivorous
   3) Saprophytic
   4) Parasitic

143) The enzymes present in the Saliva converts _____ .
   1) fats into fatty acids and glycerol
   2) starch into simple sugars
   3) proteins into amino acids
   4) complex sugars into simple sugars.

144) The finger like outgrowths of human intestine helps to _____ .
   1) digest the fatty food substance
   2) makes the food soluble
   3) absorbs the digested food.
   4) absorb the undigested food.

145) Sericulture is _____ .
   1) rearing of silk worms
   2) rearing of sheep
   3) cotton plantation
   4) rearing of honey bees

146) Bacteria which causes a fatal blood disease called sorter's disease is _____ .
   1) Escherichia
   2) Streptococcus
   3) E. Coli
   4) Anthrax

147) In which mode of heat transfer does the transfer of heat occur as a wave?
   1) Conduction
   2) Convection
   3) Radiation
   4) all of the above

148) Mercury is generally used in thermometer because it has a _____ .
   1) high fluidity
   2) high density
   3) high conductivity
   4) high specific heat

149) The final temperature of the mixture of water obtained by mixing equal volumes of water at 2^0c and 4^0c will be _____ .
   1) 1^0c
   2) 3^0c
   3) $2^0 c$
   4) 4^0c

150) During aerobic respiration the end product other than carbon dioxide and energy is _____ .
   1) alcohol
   2) nitrogen
   3) water
   4) oxygen

151) The percentage of oxygen in the inhaled air is _____ .
   1) 16.4%
   2) 21%
   3) 18%
   4) 26%

152) Which of the following is a strong acid?
   1) acetic acid
   2) lactic acid
   3) citric acid
   4) nitric acid

153) The instrument used to measure humidity is _____ .
   1) barometer
   2) anemometer
   3) hygrometer
   4) wind vane

154) For protecting iron pipes from corrosion, they are coated with _____.
   1) copper
   2) zinc
   3) aluminium
   4) silver

155) Which of the following statement is correct?
   1) evaporation is a chemical change
   2) digestion of food is a chemical change
   3) burning of paper is a physical change
   4) all the above

156) In which one of the following situations, chemical reaction does not occur?
   1) common salt is exposed to air
   2) coal is burnt in air
   3) sodium is placed in water
   4) iron is kept in moist air

157) The coldest region on earth is the _____ .
   1) coastal region
   2) Temperate region
   3) polar region
   4) tropical region

158) Which of the following is NOT an element of weather?
1) temperature
2) humidity
3) wind-speed
4) soil

159) In Western Ghats of India, the Long tailed macaque is also known as _____ .
1) Indian Parrot
2) Beard Ape
3) Monkey
4) Lemurs

160) A violent tornado travel at a speed of about _____ .
1) 100 km/hr.
2) 200 km/hr.
3) 300 km/hr.
4) 50 km/hr.

161) A dark funnel shaped cloud that reaches from the sky to the ground is called a _____ .
1) Hurricane
2) Tornado
3) Thunderstorm
4) Typhoon

162) A cyclone is called a _____ in the American continent.
1) Hurricane
2) Typhoon
3) Tornado
4) Thunderstorm

163) Water logging can be expected in soil which is rich in _____ .
1) sand
2) clay
3) silt
4) humus

164) Paddy grows best in _____ .
1) clayey soil
2) loamy soil
3) sandy soil
4) clayey – loam

165) Sponges accomplish their goal of nutrient and gas exchange through _____ .
1) water
2) oil
3) blood
4) urine

166) Transpiration is a means _____ .
1) to cool plant body
2) to absorb water from soil
3) both a and b
4) neither a nor b.

167) The process by which plants give rise to new plants without seeds is called _____ .
1) sexual reproduction
2) vegetative propagation
3) budding
4) asexual reproduction

168) The female reproductive part of a plant is _____ .
1) pistil
2) stamen
3) bud
4) spore

169) Find the odd word out.
1) corn
2) mustard
3) papaya
4) cucumber

170) The value of 2 km/hr. Is equal to _____ .
1) 4/9 m/s.
2) 13/9 m/s.
3) 5/9 m/s.
4) 7/9 m/s.

171) The basic unit of speed is _____ .
1) m/s.
2) km/hr.
3) m/min.
4) km/min.

172) Which type of mirror is used in Periscope?
1) convex mirror
2) concave mirror
3) neither (1) nor (2)
4) plane mirror

173) If angle of incidence of ray of light on a plane mirror is 30^0, then angle of reflection is _____ .
1) 30^0
2) 45^0
3) 60^0
4) 90^0

174) The magnetic effect of the current was discovered by _____ .
1) Newton
2) Oersted
3) Joule
4) Ohm

175) The device used to make or break an electric circuit is _____ .
1) resistor
2) battery
3) switch
4) ammeter

176) Which of the following will not help in conservation of water?
1) drip irrigation
2) planting more trees
3) water treatment plant
4) cutting trees to check water loss due to transpiration

177) Ground water accumulates between layers of hard rock. It is known as _____ .
1) pond
2) aquifer
3) water table
4) surface water

178) The branchy part of a tree above the stem is known as _____ .
1) crown
2) canopy
3) sapling
4) humus

179) Liquid waste consisting of suspended impurities is called _____ .
1) contaminant
2) sewage
3) aeration
4) chlorination

180) Contaminated water causes disease _____ .
1) malaria
2) flu
3) gastroenteritis
4) none of the above.

181) An old man gave away $\frac{1}{5}^{th}$ of his property to Ram $\frac{1}{3}^{th}$ of the remaining to Shyam and $\frac{1}{2}$ of the remaining to Geeta. How much part he is left?
1) $\frac{4}{15}$
2) $\frac{2}{15}$
3) $\frac{8}{15}$
4) $\frac{1}{5}$

182) 6 pipes can fill the tank in 1 hour and 20 minutes. How much time in minutes it will take if it is filled by 5 pipes?
1) 80
2) $\frac{200}{3}$
3) 96
4) 106

183) A can do a piece of work in 15 days and B alone can do it in 10 days. B works for 5 days and then leaves. A alone can finish the remaining work in _____ .
1) 2
2) 2.5
3) 3.5
4) 7.5

184) Which one is the smallest even prime number?
1) 1
2) 2
3) 3
4) 5

185) The ratio of two number is 4 : 7 and their HCF is 6, find out their LCM
1) 164
2) 168
3) 174
4) 184

186) Vacancies for Engineers, Diploma and Artisan were in the ratio of 5:7:8 and it was decided to increase by 40%, 50% and 75%. What will be the revised ratio?
1) 3 : 4 : 5
2) 4 : 5 : 6
3) 2 : 3 : 4
4) 5 : 6 : 7

187) Find the largest number which when divides 62, 132 and 237 leaves the same remainder.
1) 45
2) 25
3) 35
4) 15

188) A square is inscribed in a circle of radius 7 cm what will be the area in cm² of four number of segments remaining?
1) 48
2) 52
3) 56
4) 64

189) Which dimensions of the angle are not correct to draw a triangle?
1) 75 - 15 - 90
2) 57 - 85 - 37
3) 28 - 32 - 120
4) 58 - 32 - 90

190) A train is running 20 minutes late. In order to reach the destination at right time, the train speed to be increased by what percentage so as to reach the destination which is 2 hours journey away?
1) 0.15
2) 0.18
3) 0.2
4) 0.25

191) A man saves Rs. 1000/- every year from Dec. 2015 for three years at interest rate of 10%. What amount he will get on Dec. 2018?
1) 4651
2) 3651
3) 1651
4) 651

192) The length of the two sides of a right angled triangle are 8 cm and 6cm. What will be the length of the third side?
1) 14 cm
2) 48 cm
3) 10 cm
4) 2 cm

193) What is the perimeter of the figure shown below?
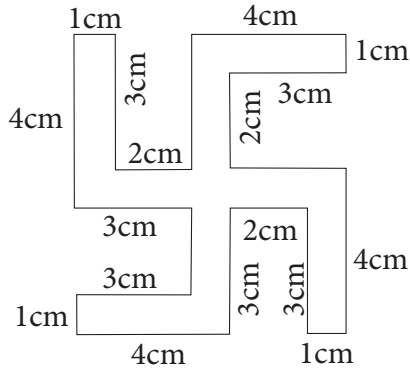
1) 39
2) 31
3) 49
4) 51

194) Two cross roads, each of width 10 m, cut at right angles through the centre of a rectangular park of length 710 m and breadth 310 m and parallel to its sides. Find the cost of growing grass in the balance area if the rate of Rs. 4500 per hectare.

1) 94500
2) 99000
3) 103500
4) 108000

195) A ladder of match sticks containing triangles is formed what is the number of sticks required for making such 23 triangles?

1) 69
2) 46
3) 47
4)
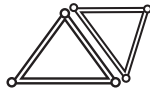
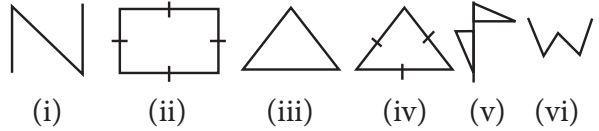196) Which one is written in the correct descending order?

1) $\dfrac{9}{11} > \dfrac{8}{9} > \dfrac{3}{5} > \dfrac{4}{7}$

2) $\dfrac{9}{11} > \dfrac{8}{9} > \dfrac{4}{7} > \dfrac{3}{5}$

3) $\dfrac{8}{9} > \dfrac{9}{11} > \dfrac{3}{5} > \dfrac{4}{7}$

4) $\dfrac{9}{11} > \dfrac{3}{5} > \dfrac{8}{9} > \dfrac{4}{7}$

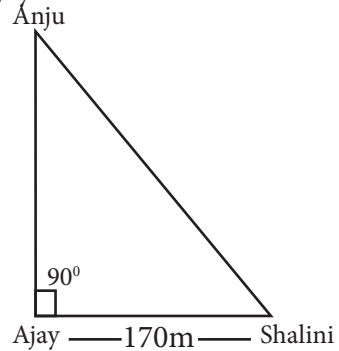197) Solve $(7^{-1} - 8^{-1})^{-1} - (3^{-1} - 4^{-1})^{-1} = $ _____.

1) 44
2) $\dfrac{11}{168}$
3) 56
4) 12

198) Which of the following two figures have both rotational and reflection symmetries?

(i)   (ii)   (iii)   (iv)   (v)   (vi)

1) i and ii
2) ii and iii
3) ii and iv
4) i and vi

199) Ajay, Anju and Shalini are standing in playground holding a rope as given in the figure. If the area enclosed by them is 8585 sq.m. then find the distance between Anju and Ajay.

1) 202 m
2) 101 m
3) 303 m
4) 404 m

200) Pictorial representation of 3 x $\dfrac{2}{3}$ is _____ .