

**ENGLISH/VERBAL ABILITY (Q. No. 1 – 25)**

For Questions 1 – 4 (*Direction* : Answer the following questions based on the passage below.)

In the world today we make health an end in itself. We have forgotten that health is really means to enable a person to do his work and does it well. A lot of modern medicine and this includes many patients as well as many physicians pays very little attention to health but very much attention to those who imagine that they are ill. Our great concern with health is shown by the medical columns in newspapers. The health articles in popular magazines and the popularity of television programmes and all those books on medicine. We talk about health all the time. Yet for the most part the only result is more people with imaginary illness. The healthy man should not be wasting time talking about health: he should be using health for work. The work does the work that good health possible.

1. Modern medicine is primarily concerned with
 - A) promotion of good health
 - B) people suffering from imaginary illness
 - C) people suffering from real illness
 - D) increased efficiency in work
2. The passage suggests that
 - A) health is an end in itself
 - B) health is blessing
 - C) health is only means to an end
 - D) we should not talk about health
3. Talking about the health all time makes people
 - A) always suffer from imaginary illness
 - B) sometimes suffer from imaginary illness
 - C) rarely suffer from imaginary illness
 - D) often suffer from imaginary illness
4. The passage tells us
 - A) how medicine should be manufactured
 - B) what healthy man should or should not do
 - C) what television programmes should be about
 - D) how best to imagine illness



For Questions 5 – 6 (Direction: In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.)

5. Arrange the words given below in a meaningful sequence :

- 1. Word
- 2. Paragraph
- 3. Sentence
- 4. Letters
- 5. Phrase

- A) 4, 1, 5, 2, 3
- B) 4, 1, 3, 5, 2
- C) 4, 2, 5, 1, 3
- D) 4, 1, 5, 3, 2

6. Arrange the words given below in a meaningful sequence.

- 1. Protect
- 2. Pressure
- 3. Relief
- 4. Rain
- 5. Flood

- A) 2, 4, 3, 1, 5
- B) 2, 4, 5, 1, 3
- C) 2, 5, 4, 1, 3
- D) 3, 2, 4, 5, 1

For Questions 7 – 8 (Direction: In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence.)

7. Choose the proper sequence.

It is easy to excuse

P : but it is hard

Q : in a boy of fourteen

R : the mischief of early childhood

S : to tolerate even unavoidable faults

The proper sequence should be

- A) RPQS
- B) QRSP
- C) QRPS
- D) RPSQ

8. Education is

P : of the proper sense of responsibilities

Q : the first need

R : in a citizen

S : for the development

The proper sequence should be

- A) SQPR
- B) QSRP
- C) QSPR
- D) PQRS



For Questions 9 – 10 (*Direction:* In each question below a sentence broken into five parts. Join these parts to make a meaningful sentence. The correct order of parts is the answer.)

9. The parts of the sentence are

1. Medicine 2. A 3. Neeta

4. Given 5. Was

A) 51423

B) 25431

C) 15423

D) 35421

10. The parts of the sentence are

1. Seen 2. Going 3. You

4. Him 5. Have

A) 35214

B) 35142

C) 32514

D) 35124

For Question 11 (*Direction :* It is known that China's GDP in 2015 was 7% higher than its value in 2014, while India's GDP grew by 2% during the same period. The GDP of South Korea, on the other hand, fell by 5%. Which of the following statements is/are true ?)

11. Statements :

I. Foreign equity inflows to China were higher in 2015 than in 2014.

II. Foreign equity inflows to China were lower in 2015 than in 2014.

III. Foreign equity inflows to India were higher in 2015 than in 2014.

IV. Foreign equity inflows to South Korea decreased in 2015 relative to 2014.

V. Foreign equity inflows to South Korea increased in 2015 relative to 2014.

Conclusions:

A) I, III and IV

B) II, III and IV

C) I, III and V

D) II and V

12. China's foreign equity inflows in 2015 were 10 times that into India. It can be concluded that

A) China's GDP in 2015 was 40% higher than that of India.

B) China's GDP in 2015 was 70% higher than that of India.

C) China's GDP in 2015 was 50% higher than that of India.

D) No inference can be drawn about relative magnitudes of China's and India's GDPs.



For Questions 13 – 14 (Direction: Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, select the pair which has the same relationship.)

13. SYMPHONY : COMPOSER

- A) Leonardo : Music
- C) Colours : Pallet

- B) Fresco : Painter
- D) Art : Appreciation

14. PAIN : SEDATIVE

- A) Comfort : Stimulant
- C) Trance : Narcotic

- B) Grief : Consolation
- D) Ache : Extraction

For Questions 15 – 17 (Direction: Read each sentence to find out whether there is any grammatical mistake /error in it. The error if any, will be in one part of the sentence. Mark the number of that part with error, as your answer.)

15. A) The government is working

- B) out a new system to compensate
- C) those companies to sell
- D) products below the market price

16. A) The success of the

- B) government sponsor job guarantee programme
- C) has resulted in a
- D) drastic drop in poverty

17. A) We were forced into react

- B) as no organization can
- C) afford to adhere to
- D) these outdated regulations

For Questions 18 – 19 (Direction: Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully.)

18. Fate smiles _____ those who untiringly grapple with stark realities of life.

- A) with
- B) over
- C) on
- D) round

19. Success in this examination depends _____ hard work alone.

- A) at
- B) over
- C) for
- D) on



For Questions 20 – 21 (*Direction:* Choose the word from among the four options (A), (B), (C) and (D) which is nearest in meaning to the given word.)

20. CORPULENT

- | | |
|----------|--------------|
| A) Lean | B) Gaunt |
| C) Obese | D) Emaciated |

21. EMBEZZLE

- | | |
|-------------------|------------|
| A) Misappropriate | B) Balance |
| C) Remunerate | D) Clear |

For Questions 22 – 23 (*Direction:* Below are given some words followed by four answers. Tick the answer which you believe gives the opposite meaning of the word.)

22. ENORMOUS

- | | |
|---------|------------|
| A) Soft | B) Average |
| C) Tiny | D) Weak |

23. EXODUS

- | | |
|-----------|----------------|
| A) Influx | B) Home-coming |
| C) Return | D) Restoration |

For Questions 24 – 25 (*Direction:* Below are given idioms followed by four alternative meanings marked (A), (B), (C) and (D). Tick the one which you think is the most appropriate.)

24. To be on the wane

- | | |
|------------------|----------------------|
| A) to complain | B) to be sick |
| C) to be on boat | D) to be diminishing |

25. To give a person the cold shoulder

- | | |
|-------------------------------|-----------------|
| A) to offer someone ice-cream | B) to be humble |
| C) to threaten | D) to ignore |



MATHS/QUANTITATIVE ABILITY (Q. No. 26 – 50)

26. The sum of first five prime numbers is
A) 11 B) 18 C) 26 D) 28
27. If the number $517*324$ is completely divisible by 3, then the smallest whole number in the place of * will be
A) 0 B) 1 C) 2 D) None of these
28. Angle which is less than 360° and larger than 180° is classified as
A) acute angle B) obtuse angle
C) right angle D) reflex angle
29. Flat surface in which two points are joined by using straight line is classified as
A) line B) ray
C) intersecting line D) plane
30. For Cosine Rule of any triangle ABC, b^2 is equal to
A) $a^2 - c^2 + 2ab \cos A$ B) $a^3 + c^3 - 3ab \cos A$
C) $a^2 + c^2 - 2ac \cos B$ D) $a^2 - c^2 - 4bc \cos A$
31. A person standing on the bank of a river observes that the angle of elevation of the top of a tree on the opposite bank of a river is 60° and when he retires 40 m away from the tree, the angle of elevation becomes 30° . The breadth of the river is
A) 20 m B) 30 m C) 40 m D) 60 m
32. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5 ?
A) $1/2$ B) $2/5$ C) $8/15$ D) $9/20$
33. What is the probability of getting a sum 9 from two throws of a dice ?
A) $1/6$ B) $1/8$ C) $1/9$ D) $1/12$
34. In how many ways can the letters of the word 'LEADER' be arranged ?
A) 72 B) 144 C) 360 D) 720
35. Three unbiased coins are tossed. What is the probability of getting at most two heads ?
A) $3/4$ B) $1/4$ C) $3/8$ D) $7/8$



36. If $x^3 + y^3 = 9$ and $x + y = 3$ then the value of $x^4 + y^4$ is
A) 81 B) 32 C) 27 D) 17
37. If $x^{1/3} + y^{1/3} - z^{1/3} = 0$ then value of $(x + y - z)^3 + 27xyz$ is
A) -1 B) 1 C) 0 D) 27
38. What will be the area of a semi-circle whose perimeter is 36 cm ?
A) 154 cm^2 B) 168 cm^2
C) 308 cm^2 D) Data inadequate
39. The diagonal of a square is 42 cm. The diagonal of another square whose area is double that of the first square is
A) 8 cm B) 82 cm C) 42 cm D) 16 cm
40. If 12 carpenters working 6 hours a day can make 460 chairs in 24 days, how many chairs will 18 carpenters make in 36 days each working 8 hours a day ?
A) 1260 B) 1320 C) 960 D) 1380
41. 400 persons working 9 hours per day complete one fourth of the work in 10 days. The number of additional persons working 8 hours per day required to complete the remaining work in 20 days, is
A) 675 B) 275 C) 250 D) 225
42. The average marks of Sudhir in subjects A, B and C is 45. If the average mark of A and B is 40 and that of B and C 43, then the marks in B is
A) 17kg B) 20kg C) 26 kg D) 31 kg
43. The average monthly income of P and Q is Rs. 6,000. The average monthly income of Q and R is Rs. 7,200 and the average monthly income of P and R is Rs. 6,500. The monthly income of P is
A) Rs. 4,000 B) Rs. 5,300
C) Rs. 4,700 D) Rs. 6,000
44. A discount of 15% on one article is the same as a discount of 20% on another article. The costs of the two articles can be
A) Rs. 40, Rs. 20
B) Rs. 60, Rs. 40
C) Rs. 80, Rs. 60
D) Rs. 20, Rs. 40

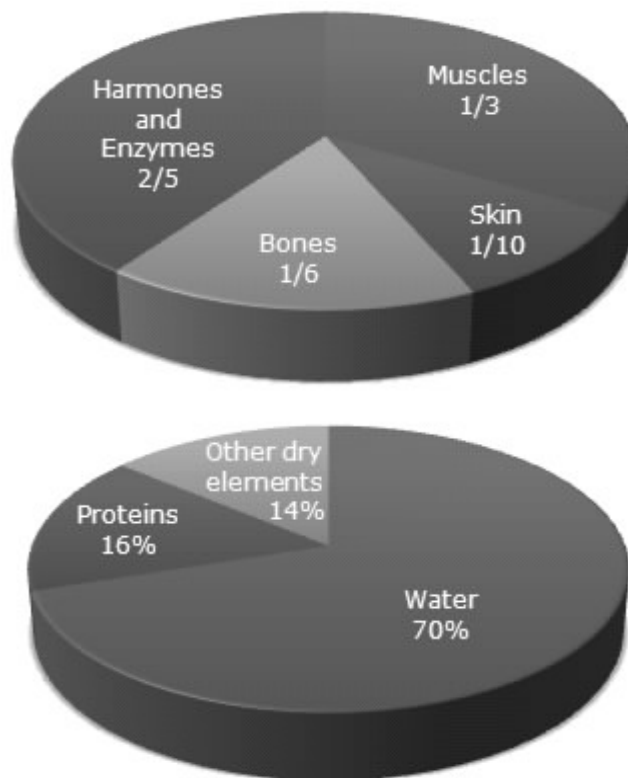


55. The percentage of candidates selected from U.P over those qualified from U.P is highest in the year

- A) 1997 B) 1998 C) 1999 D) 2001

For Questions 56 – 60 (Direction: Study the following Pie-diagrams carefully and answer the questions given below it.)

Percentage Composition of Human Body



56. What percent of the total weight of human body is equivalent to the weight of the proteins in skin in human body ?

- A) 0.016 B) 1.6
C) 0.16 D) Data inadequate

57. What will be the quantity of water in the body of a person weighing 50 kg ?

- A) 20 kg B) 35 kg C) 41 kg D) 42.5 kg

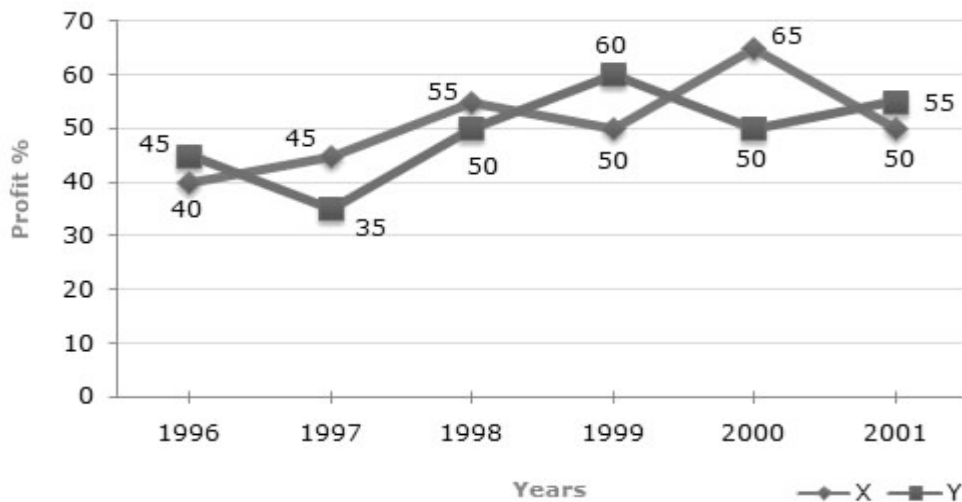


58. What is the ratio of the distribution of proteins in the muscles to that of the distribution of proteins in the bones ?
 A) 1:18 B) 1:2 C) 2:1 D) 18:1
59. To show the distribution of proteins and other dry elements in the human body, the arc of the circle should subtend at the centre an angle of
 A) 54° B) 126° C) 108° D) 252°
60. In the human body, what part is made of neither bones nor skin ?
 A) 1/40 B) 3/80 C) 2/5 D) None of these

For Questions 61 – 65 (Direction: The following line graph gives the percent profit earned by two Companies X and Y during the period 1996 – 2001.)

Percentage profit earned by two Companies X and Y over the given Years

$$\% \text{Profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

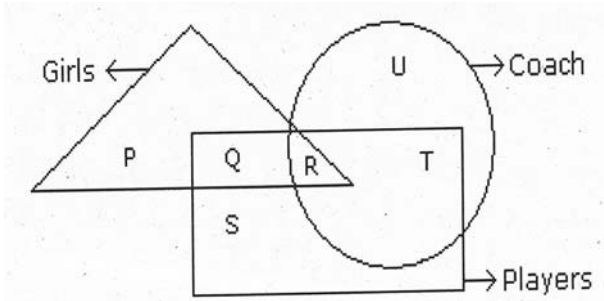


61. The incomes of two Companies X and Y in 2000 were in the ratio of 3:4 respectively. What was the respective ratio of their expenditures in 2000 ?
 A) 7:22 B) 14:19
 C) 15:22 D) 27:35

A*

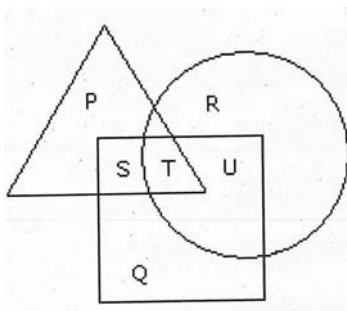


68. In the following figure triangle represents 'girls', square players and circle-coach. Which part of the diagram represents the girls who are player but not coach ?



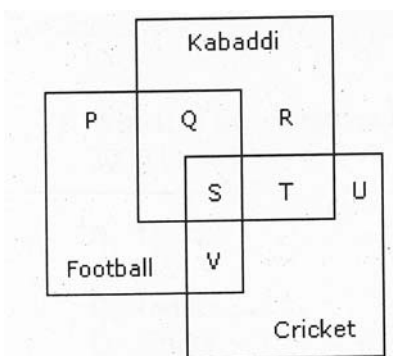
- A) P B) Q C) R D) S

69. In the figure given below, square represents doctors, triangle represents ladies and circle represents surgeon. By which letter the ladies who doctor and surgeon both are represented ?



- A) U B) T C) S D) P

70. The diagram given below represents those students who play Cricket, Football and Kabaddi.

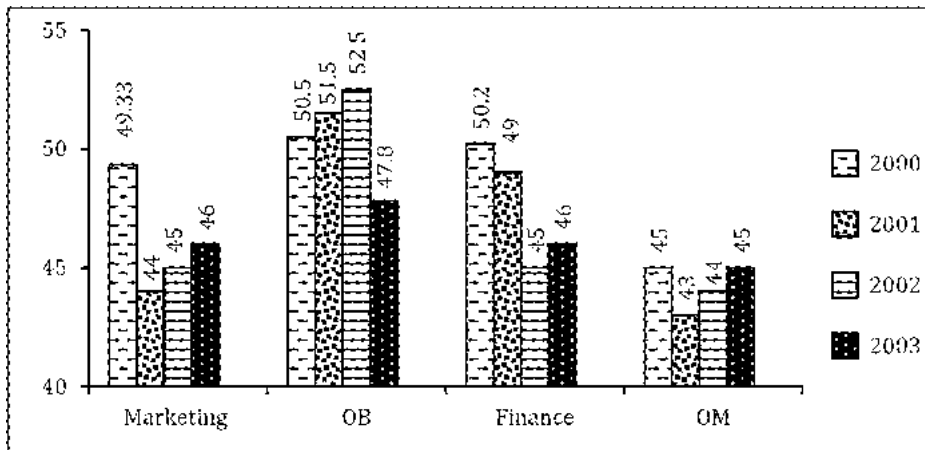


Study the diagram and identify the students who play all the three games

- A) P + Q + R B) V + T C) S + T + V D) S



For Questions 71 – 73 : A Management Institute was established on January 1, 2000 with 3, 4, 5, and 6 faculty members in the Marketing, Organizational Behaviour (OB), Finance, and Operations Management (OM) areas respectively, to start with. No faculty member retired or joined the institute in the first three months of the year 2000. In the next four years, the institute recruited one faculty member in each of the four areas. All these new faculty members, who joined the institute subsequently over the years, were 25 years old at the time of their joining the institute. All of them joined the institute on April 1. During these four years, one of the faculty members retired at the age of 60. The following diagram gives the area-wise average age (in terms of number of completed years) of faculty members as on April 1 of 2000, 2001, 2002, and 2003.



- 71. From which area did the faculty member retire ?
 - A) Finance
 - B) Marketing
 - C) OB
 - D) OM

- 72. Professors Naresh and Devesh, two faculty members in the Marketing area, who have been with the Institute since its inception, share a birthday, which falls on 20th November. One was born in 1947 and the other one in 1950. On April 1 2005, what was the age of the third faculty member who has been in the same area since inception ?
 - A) 47
 - B) 50
 - C) 51
 - D) 52

- 73. In which year did the new faculty member join the Finance area ?
 - A) 2000
 - B) 2001
 - C) 2002
 - D) 2003



For Questions 74 – 75 (Direction: The below in each of the questions are given two Statements I and II. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statements. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.)

74. Statements:

- I) Standard of living among the middle class society is constantly going up since part of few years.
- II) Indian Economy is observing remarkable growth.
- A) Statement I is the cause and statement II is its effect
- B) Statement II is the cause and statement I is its effect
- C) Both the statements I and II are independent causes
- D) Both the statements I and II are effects of some common cause

75. Statements:

- I) Importance of Yoga and exercise is being realized by all sections of the society.
- II) There is an increasing awareness about health in the society particularly among middle ages group of people.
- A) Statement I is the cause and statement II is its effect
- B) Statement II is the cause and statement I is its effect
- C) Both the statements I and II are independent causes
- D) Both the statements I and II are effects of some common cause



82. Arrange the words given below in a meaningful sequence.

1. Windows 2. Walls 3. Floor
4. Foundation 5. Roof 6. Room

A) 4, 1, 5, 6, 2, 3 B) 4, 2, 1, 5, 3, 6 C) 4, 3, 5, 6, 2, 1 D) 4, 5, 3, 2, 1, 6

83. Arrange the words given below in a meaningful sequence.

1. Police 2. Punishment 3. Crime
4. Judge 5. Judgment

A) 3, 1, 2, 4, 5 B) 1, 2, 4, 3, 5 C) 5, 4, 3, 2, 1 D) 3, 1, 4, 5, 2

84. Arrange the words given below in a meaningful sequence.

1. Poverty 2. Population 3. Death
4. Unemployment 5. Disease

A) 2, 3, 4, 5, 1 B) 3, 4, 2, 5, 1 C) 2, 4, 1, 5, 3 D) 1, 2, 3, 4, 5

85. Statements

- I. Blueberries cost more than strawberries.
II. Blueberries cost less than raspberries.
III. Raspberries cost more than strawberries and blueberries.

If the first two statements are true, the third statement is

A) True B) False C) Uncertain D) Data not sufficient

86. The logic problems in this set present you with three true statements

Fact 1 : All dogs like to run.

Fact 2 : Some dogs like to swim.

Fact 3 : Some dogs look like their masters.

If the first three statements are facts, which of the following statements must also be a fact ?

- I. All dogs who like to swim look like their masters.
II. Dogs who like to swim also like to run.
III. Dogs who like to run do not look like their masters.

A) I only
B) II only
C) II and III only
D) None of the statements is a known fact



87. The logic problems in this set present you with three true statements:
Fact 1: Some pens don't write.
Fact 2: All blue pens write.
Fact 3: Some writing utensils are pens
If the first three statements are facts, which of the following statements must also be a fact ?
- I. Some writing utensils don't write.
 - II. Some writing utensils are blue.
 - III. Some blue writing utensils don't write
- A) I only
 - B) I and II only
 - C) II and III only
 - D) All of the above
88. At what time in between 9 and 10 o'clock will a hands of a watch be together ?
- A) 45 min past 9
 - B) 50 min past 9
 - C) 49 $\frac{1}{11}$ min past 9
 - D) 48 $\frac{2}{11}$ min past 9
89. An accurate clock shows 8 o'clock in the morning. Through how may degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon ?
- A) 144°
 - B) 150°
 - C) 168°
 - D) 180°
90. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through
- A) 145°
 - B) 150°
 - C) 155°
 - D) 160°
91. Today is Monday. After 61 days, it will be
- A) Wednesday
 - B) Saturday
 - C) Tuesday
 - D) Thursday
92. The calendar for the year 2007 will be the same for the year
- A) 2014
 - B) 2016
 - C) 2017
 - D) 2018
93. On 8th Dec., 2007 Saturday falls. What day of the week was it on 8th Dec., 2006 ?
- A) Sunday
 - B) Thursday
 - C) Tuesday
 - D) Friday



For Questions 94-95 (Direction : In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.)

94. **Statement:** In order to bring punctuality in our office, we must provide conveyance allowance to our employees.” - In charge of a company tells Personnel Manager.

Assumptions

- I. Conveyance allowance will not help in bringing punctuality.
- II. Discipline and reward should always go hand in hand.

- A) Only assumption I is implicit
- B) Only assumption II is implicit
- C) Either I or II is implicit
- D) Neither I nor II is implicit

95. **Statement:** A warning in a train compartment - “To stop train, pull chain. Penalty for improper use Rs. 500.”

Assumptions

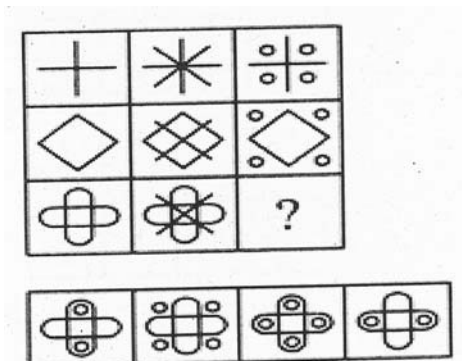
- I. Some people misuse the alarm chain
- II. On certain occasions, people may want to stop a running train.

- A) Only assumption I is implicit
- B) Only assumption II is implicit
- C) Either I or II is implicit
- D) Both I and II are implicit

96. Which of the following is greater than $\frac{2}{3}$?

- A) $\frac{33}{50}$
- B) $\frac{3}{5}$
- C) $\frac{13}{27}$
- D) $\frac{8}{11}$

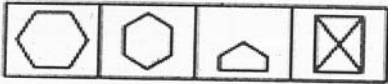
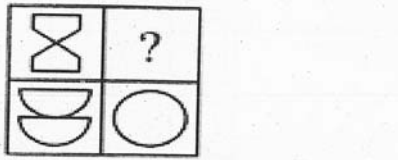
97. Select a suitable figure from the four alternatives that would complete the figure matrix



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



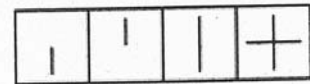
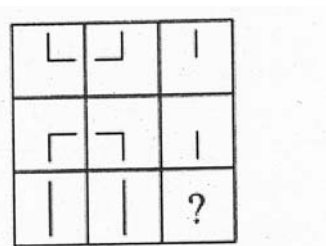
98. Select a suitable figure from the four alternatives that would complete the figure matrix.



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

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

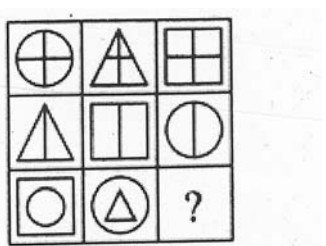
99. Select a suitable figure from the four alternatives that would complete the figure matrix.



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

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

100. Select a suitable figure from the four alternatives that would complete the figure matrix.



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

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



SPACE FOR ROUGH WORK