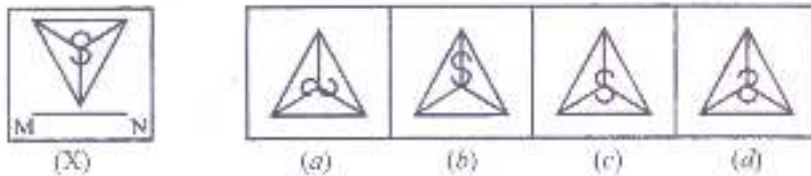
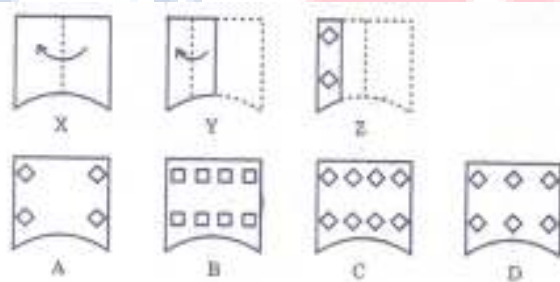


SECTION-A (Logical Reasoning)

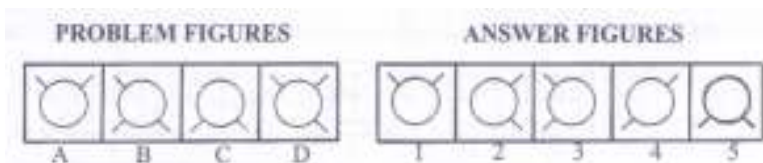
1. In the following questions, choose the correct mirror-image of the Fig. (X) from amongst the four alternatives (a), (b), (c) and (d) given along with it. The mirror is represented by a line MN .



2. The following questions consists of a set of three figures X,Y and Z showing a sequence of folding of a piece of paper. Fig (Z) shows the manner in which the folded paper has been cut. These three figures are followed by four answer figures from which you have to choose a figure which would most closely resemble the unfolded form of fig (Z).



3. The following question consists of four problem figures marked A,B,C and D and five Answer Figures marked 1,2,3,4, and 5. Select a figure form amongst the Answer Figures which will continue the series established by the four Problem Figures.



4. How many pairs of letters are there in the word BUCKET which have as many letters between them in the word as in the alphabet?
- One
 - Four
 - Two
 - Three
5. In the following questions, a group of letters is given which are numbered 1, 2, 3, 4, 5, 6. Below are-given four alternatives containing combination of these numbers. Select that combination of numbers so that letters arranged accordingly form a meaningful word.
- A M D E N R
1 2 3 4 5 6
- 2, 1, 3, 5, 4, 6
 - 1, 6, 2, 4, 5, 3
 - 6, 4, 2, 1, 5, 3
 - 3, 4, 5, 2, 1, 6
6. One morning after sunrise Geeta and Sita were talking to each other face to face. If Sita's shadow was exactly to the right of Geeta. Which direction Sita was facing?
- West
 - North
 - East
 - South
7. In the following question, three are alike and so form a group. Which is the one that does not belong to that group?
- Baroda
 - Bokaro
 - Raniganj
 - Jharia
8. In the following question, four pairs of words are given. Out of which the words in three pairs bear a certain common relationship. Choose the pair in which words are differently related.
- Merchant : Business
 - Jupiter : Planet
 - Maize : Cereal

- d) Musician : Artist
9. Find the correct alternative from the options
NUMBER : UNBMER :: GHOST : ?
- a) HOGST
 - b) HGSOT
 - c) HOGTS
 - d) HGOST
10. In question three words are given, which have something in common among themselves. Out of four given alternatives choose the most appropriate description about these words.
Majlis : Diet : Knesset
- a) They are old names of certain countries
 - b) These are various food eaten in various countries
 - c) These are foreign languages
 - d) These are Parliaments of different countries

SECTION-B (Day to Day Mathematics)

11. A letter is chosen at random from the letter of word concentration. What is the probability that the chosen letter is a consonant?
- a) $\frac{8}{13}$
 - b) $\frac{6}{13}$
 - c) $\frac{5}{13}$
 - d) $\frac{7}{13}$
12. If the less than cumulative frequency of a class is 50 and that of the previous class is 30, then the frequency of that class is _____
- a) 10
 - b) 20
 - c) 40
 - d) 30

13. A solid sphere of copper of radius 10.5 cm is melted and right cones of radius 3.5 cm and height 3 cm are made from the material. What is the number of cones made?
- 136
 - 126
 - 156
 - 146
14. The areas of three adjacent faces of a cuboid are x , y , z respectively then the volume of the cuboid is
- xyz
 - \sqrt{xyz}
 - $2xyz$
 - $3\sqrt{xyz}$
15. How the tangent at any point of a circle and radius through the point is related?
- Perpendicular to each other
 - Parallel to each other
 - having same length
 - None of these
16. A bicycle wheel makes 5000 revolutions in moving 11 km. What is the radius of the wheel?
- 45 cm
 - 25 cm
 - 35 cm
 - None of these
17. Which among the following is true?
- $\sin 1^0 > \sin 1^c$
 - $\sin 1^0 < \sin 1^c$
 - $\sin 1^0 = \sin 1^c$
 - None of these
18. If the co-ordinates of mid-point of the sides of a triangle are $(1, 1)$, $(2, -3)$ and $(3, 4)$ what is the centroid?
- $(6, 2)$
 - $(2, \frac{2}{3})$

- c) (2, 1)
d) (3, 2)
19. The lines $x = -1$ and $y = 4$ are _____
a) perpendicular to each other
b) parallel to each other
c) neither parallel nor perpendicular to each other
d) None of these
20. In an isosceles $\triangle ABC$ if $AB = AC = 13$ cm and altitude from A on BC is 5 cm. What is the length of BC?
a) 12 cm
b) 24 cm
c) 6 cm
d) None of these
21. What is the value of k for which $5k + 2$, $4k - 1$ and $k + 2$ are in arithmetic progression?
a) 2
b) 3
c) 4
d) 6
22. If the difference of the root $x^2 - px + q = 0$ is unity then
a) $p^2 - 4q = 1$
b) $p^2 + 4q = 1$
c) $p^2 + 4q^2 = (1 + 2q)^2$
d) $4p^2 + q^2 = (1 + 2p)^2$
23. Taxi charges in a city consist of fixed charges and the remaining depending upon the distance travelled in kilometres. If a person travels 70 km and he pays Rs. 500, for travelling 100 km he pays Rs. 680. What is rate per kilometre?
a) 6
b) 8
c) 10
d) 7

24. If divisor is $x - 1 - x^2$ and dividend is $3x^2 - x^3 - 3x + 5$, then what is the remainder?
- $x - 3$
 - 3
 - 3
 - $x + 3$
25. Ashok has two vessels which contain 720 ml and 405 ml of milk respectively. Milk in each vessel is poured into glasses of equal capacity to their brim. Find the minimum number of glasses which can be filled with milk.
- 45
 - 35
 - 25
 - 30

ANSWER IFMO CLASS 10 – WORKSHEET - 5

1	D	2	C	3	A	4	A	5	C	6	B	7	A	8	A	9	B	10	D
11	A	12	B	13	B	14	A	15	A	16	C	17	B	18	B	19	A	20	B
21	B	22	A	23	A	24	B	25	C										