

Figure Formation and Analysis

QUESTIONS

Direction (1-10): In each of the following questions, some components of a geometrical figure are given in Fig. (X). Identify this geometrical figure from amongst the four alternatives.

1.

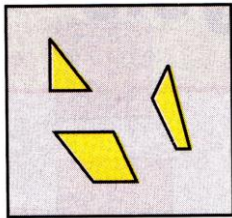
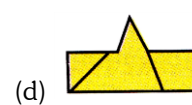
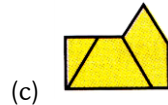
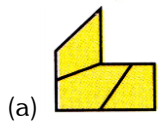


Fig. (X)



2.

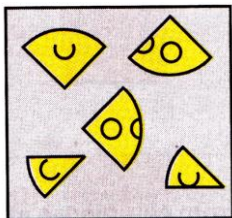
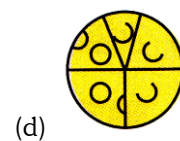
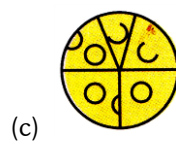
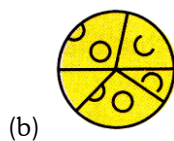
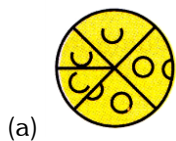


Fig. (X)



3.

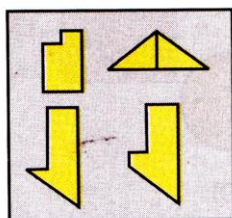
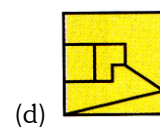
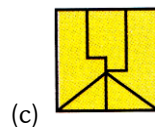
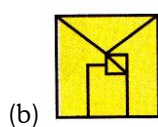
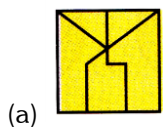


Fig. (X)



4.

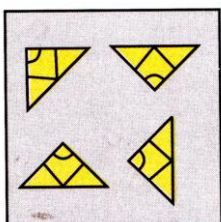
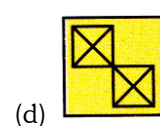
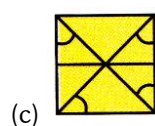
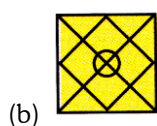
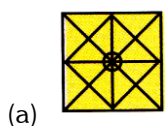


Fig. (X)



5.

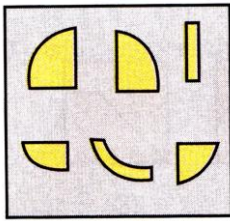
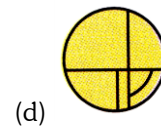
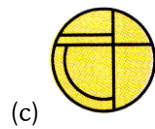
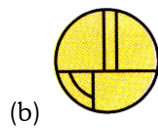
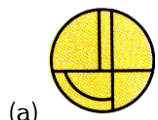


Fig. (X)



6.

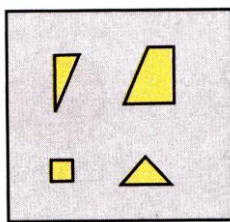
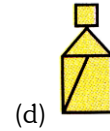
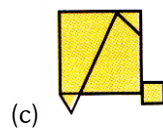
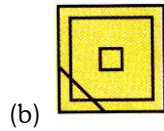
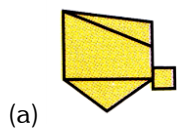


Fig. (X)



7.

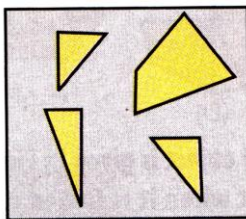
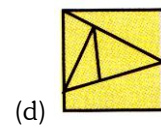
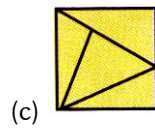
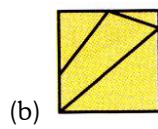
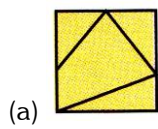


Fig. (X)



8.

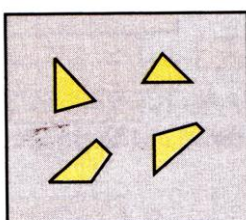
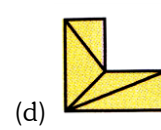
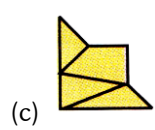
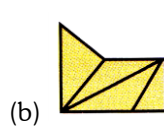
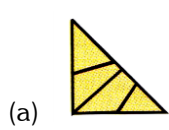


Fig. (X)



9.

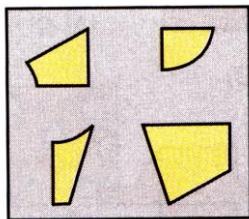
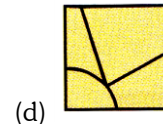
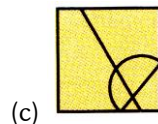
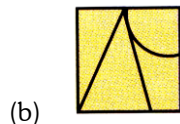
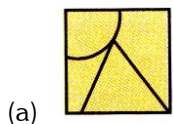


Fig. (X)



10.

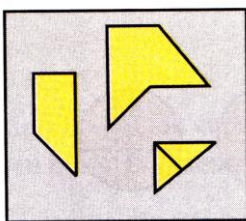
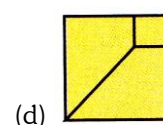
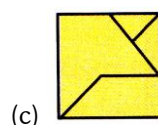
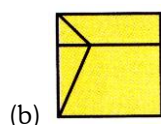
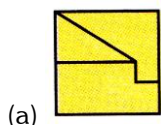
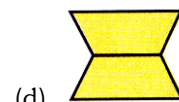
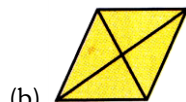
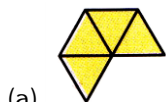


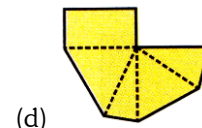
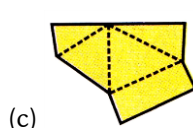
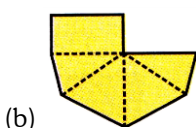
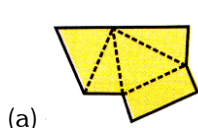
Fig. (X)



11. Different designs can be made by placing a maximum of nine matchsticks. Which of the following designs cannot be made at all?



12. Which of the following figures shown below, when folded along the dotted lines, will form a pyramid shaped box with a rectangular base?



Direction (13-15): In each of the following questions, a three dimensional object is given in Fig. (X). Choose one of the four alternative figures which fans in the given object when it is folded along the dotted lines.

13.

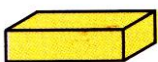
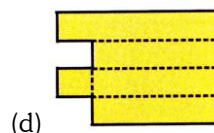
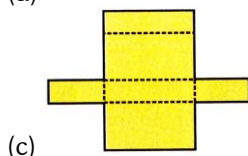
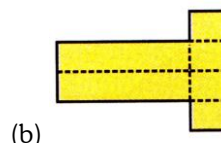
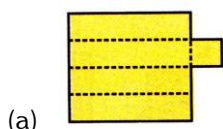


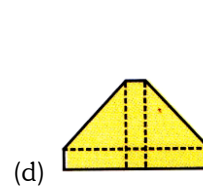
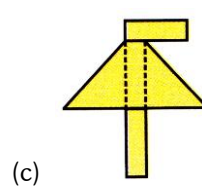
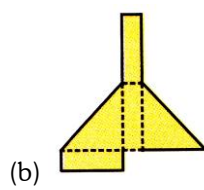
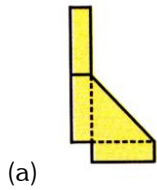
Fig. (X)



14.



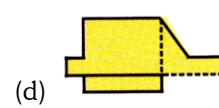
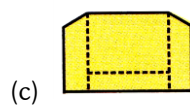
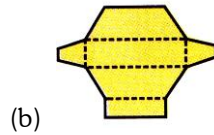
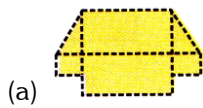
Fig. (X)



15.



Fig. (X)



Direction (16 -19): In each of the following questions, a Fig. (X) is given. In order to find this Fig. (X), which alternative figure should be rotated.

16.

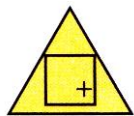
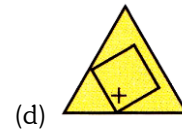
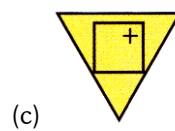
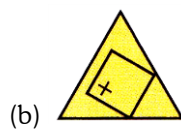
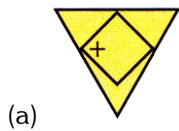


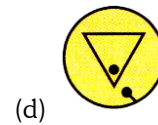
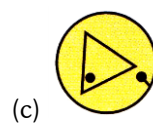
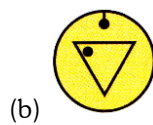
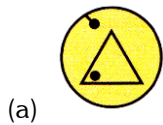
Fig. (X)



17.



Fig. (X)



18.

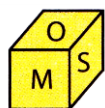
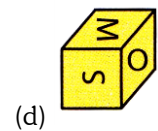
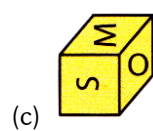
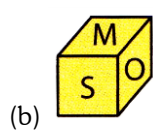
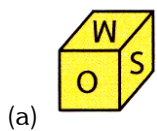


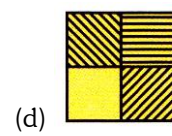
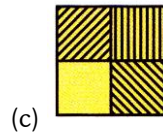
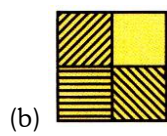
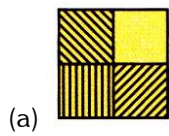
Fig. (X)



19.



Fig. (X)

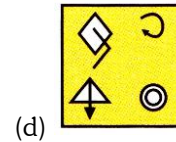
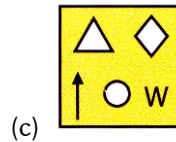
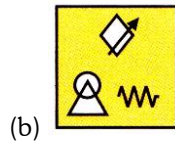
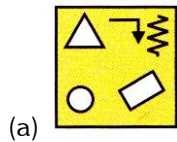


Direction (20-23): In each of the following questions, select an alternative which has the same components as the given Fig. (X).

20.



Fig. (X)



21.

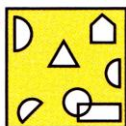
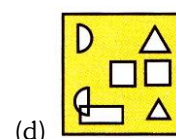
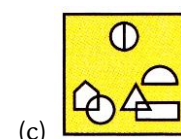
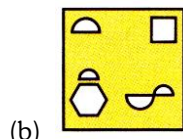
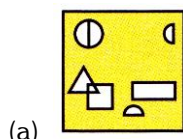


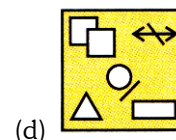
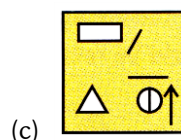
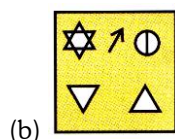
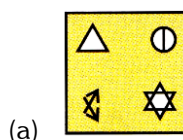
Fig. (X)



22.



Fig. (X)



23.

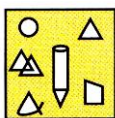
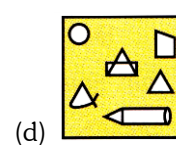
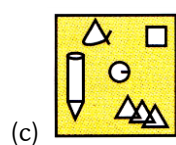
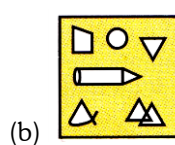
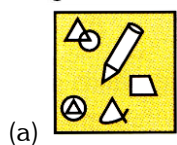


Fig. (X)



24. Identify the option figure which has the specified components of the key Fig. (X).



Fig. (X)



(a)



(b)



(c)



(d)

25. Select the figure from the options which can be formed from the pieces given in Figure (X).

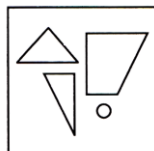
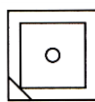
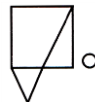


Figure (X)



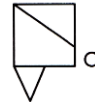
(a)



(b)



(c)



(d)

ANSWER - KEY

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

EXPLANATIONS

1. (b) Not Available
2. (a) Not Available
3. (c) Not Available
4. (b) Not Available
5. (a) Not Available
6. (d) Not Available
7. (a) Not Available
8. (a) Not Available
9. (d) Not Available
10. (c) Not Available
11. (b) Not Available
12. (a) Not Available
13. (c) Not Available
14. (b) Not Available
15. (b) Not Available
16. (b) Not Available
17. (c) Not Available
18. (d) Not Available
19. (b): To find figure (X), rotate figure (B) anticlockwise through 180° .
20. (b) Not Available
21. (c) Not Available
22. (a) Not Available
23. (b) Not Available
24. (d) Not Available
25. (c) Not Available