

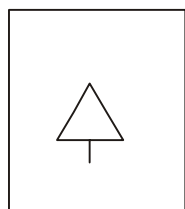
Chapter 20

Embedded Figure

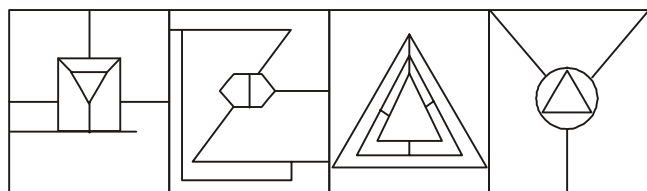
A figure (X) is said to be embedded in a figure Y, if figure Y contains figure (X) as its part. Thus problems on embedded figures contain a figure (X) followed by four complex figures in such a way that fig (X) is embedded in one of these. The figure containing the figure (X) is your answer.

DIRECTIONS : In each of the following examples, fig (X) is embedded in any one of the four alternative figures (1), (2), (3) or (4). Find the alternative which contains fig. (X) as its part.

ILLUSTRATION 1 :



(X)



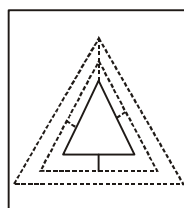
(1)

(2)

(3)

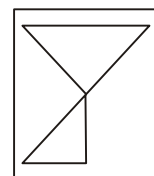
(4)

Sol. (3) On close observation, we find that fig. (X) is embedded in fig. (3) as shown below :

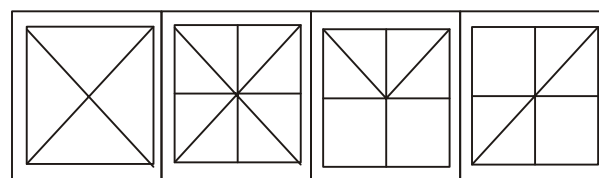


Hence, the answer is (3)

ILLUSTRATION 2 :



(X)



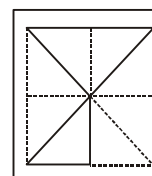
(1)

(2)

(3)

(4)

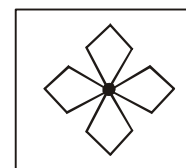
Sol. (2) Clearly, fig. (X) is embedded fig. (2) as shown below :



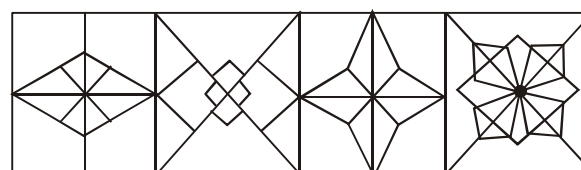
Hence, the answer is (2)

ILLUSTRATION 3 :

Find amongst the four alternatives (1), (2), (3) and (4), the figure which most nearly contains the figure (X).



(X)



(1)

(2)

(3)

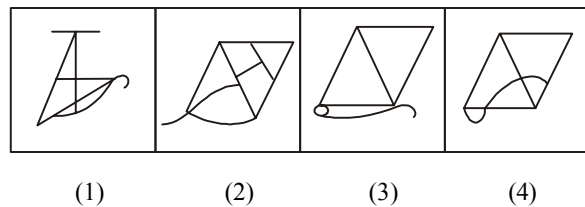
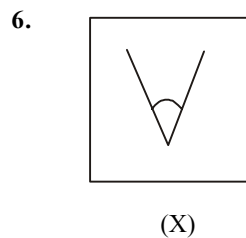
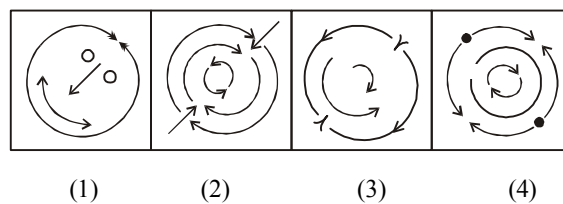
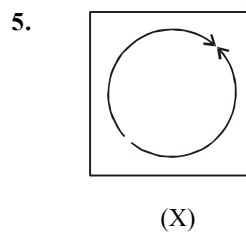
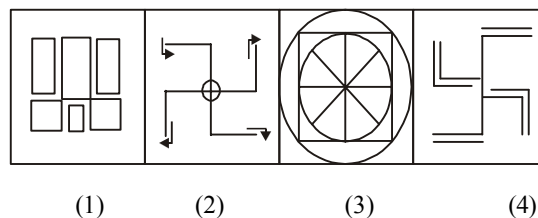
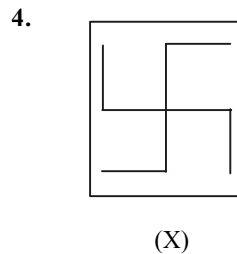
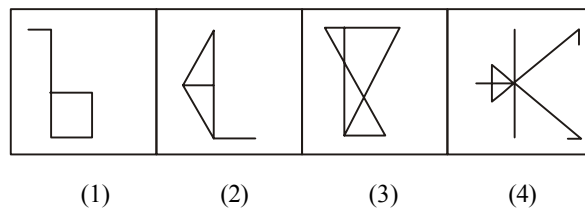
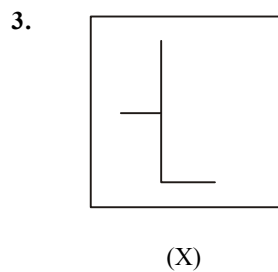
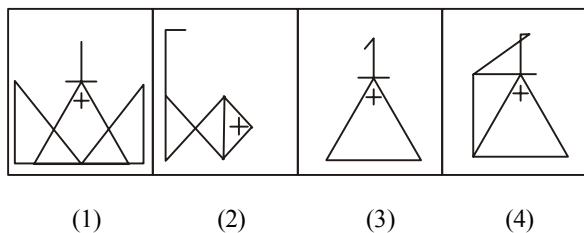
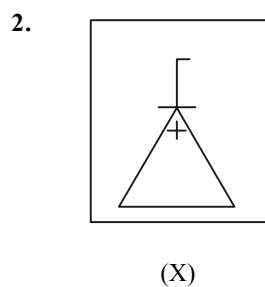
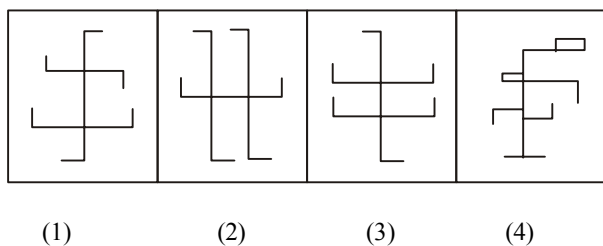
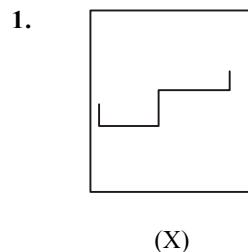
(4)

Sol. (4) Figure (X) is not contained in (1), nor in (2) nor in (3) but in (4), (X) is embedded. Thus answer is (4).

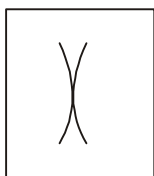
Exercise

1

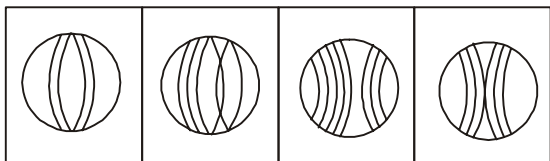
DIRECTIONS (Qs. 1-10) : In each of the following questions, you are given a figure (X) followed by four alternative figures (1), (2), (3) and (4) such that fig. (X) is embedded in one of them. Trace out the alternative figure which contains fig. (X) as its part.



7.

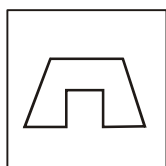


(X)

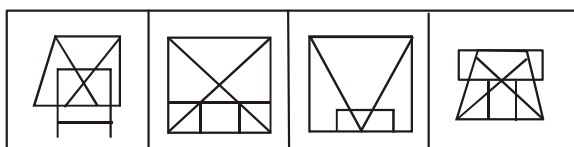


(1) (2) (3) (4)

8.

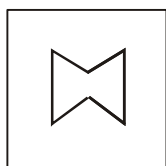


(X)

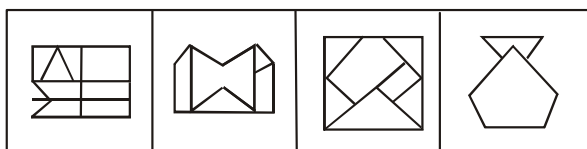


(1) (2) (3) (4)

9.

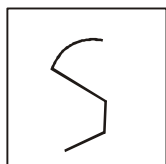


(X)

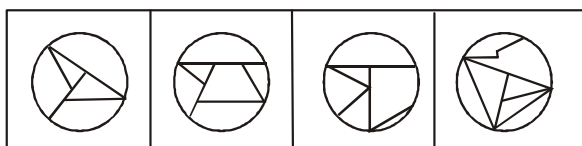


(1) (2) (3) (4)

10.



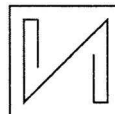
(X)



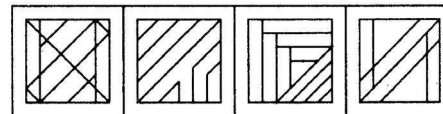
(1) (2) (3) (4)

DIRECTIONS (Qs. 11-18) : In each of the following questions, you are given a fig. (X) followed by four alternative figures (1), (2), (3) and (4) such that fig. (X) is embedded in one of them. Trace out the alternative figure which contains fig. (X) as its part.

11.

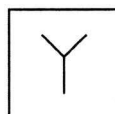


(X)

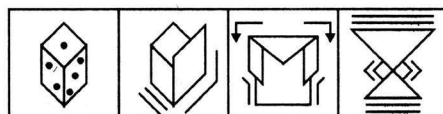


(1) (2) (3) (4)

12.

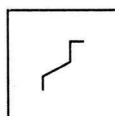


(X)

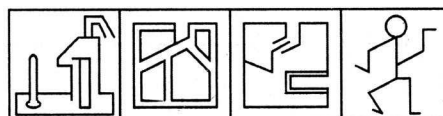


(1) (2) (3) (4)

13.

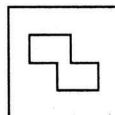


(X)

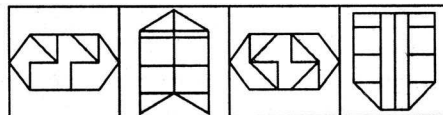


(1) (2) (3) (4)

14.

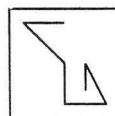


(X)

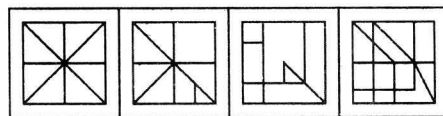


(1) (2) (3) (4)

15.

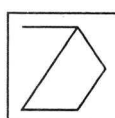


(X)

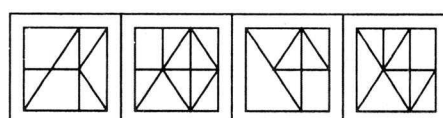


(1) (2) (3) (4)

16.

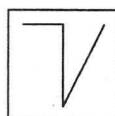


(X)

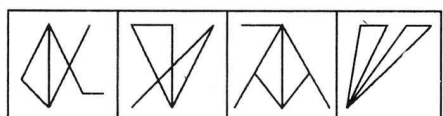


(1) (2) (3) (4)

17.

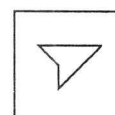


(X)

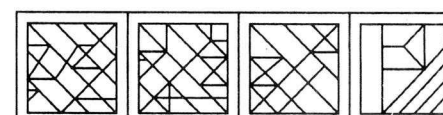


(1) (2) (3) (4)

18.



(X)



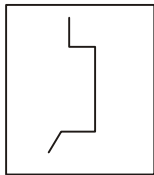
(1) (2) (3) (4)

Exercise

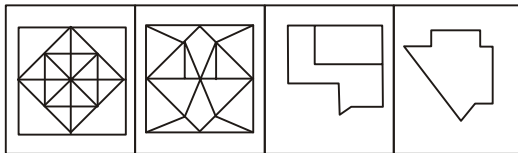
2

DIRECTIONS (Qs 1-9) : In each of the following questions, you are given a figure (X) followed by four alternative figures (1), (2), (3) and (4) such that fig (X) is embedded in one of them. Trace out the alternative figure which contains fig (X) as its part.

1.



(X)



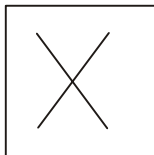
(1)

(2)

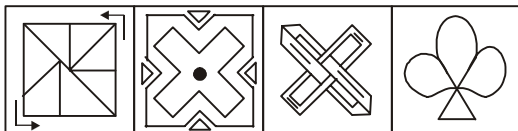
(3)

(4)

2.



(X)



(1)

(2)

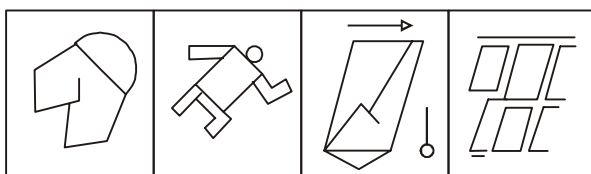
(3)

(4)

3.



(X)



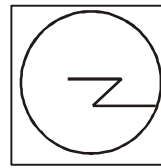
(1)

(2)

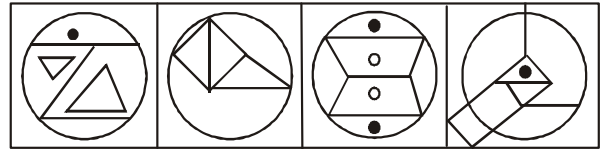
(3)

(4)

4.



(X)



(1)

(2)

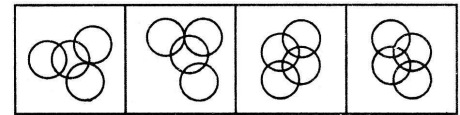
(3)

(4)

5.



(X)



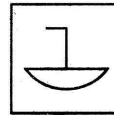
(1)

(2)

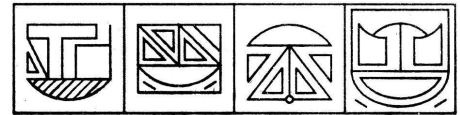
(3)

(4)

6.



(X)



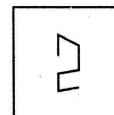
(1)

(2)

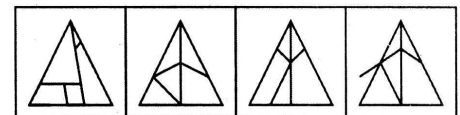
(3)

(4)

7.



(X)



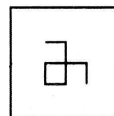
(1)

(2)

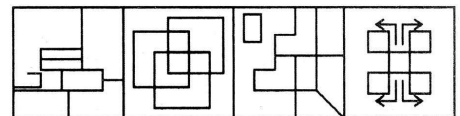
(3)

(4)

8.



(X)



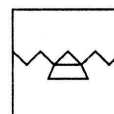
(1)

(2)

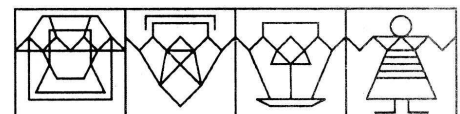
(3)

(4)

9.



(X)



(1)

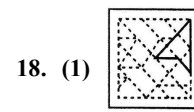
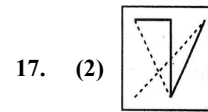
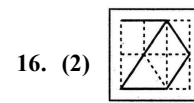
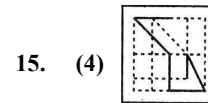
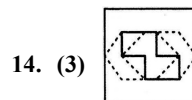
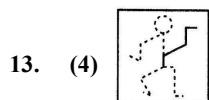
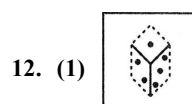
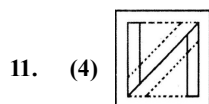
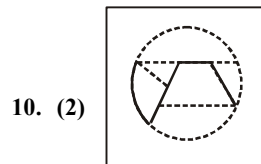
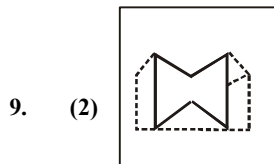
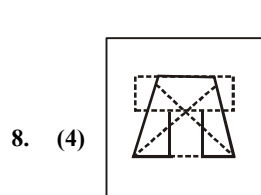
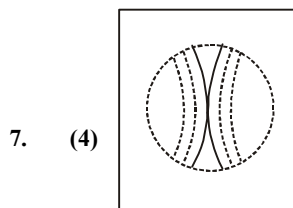
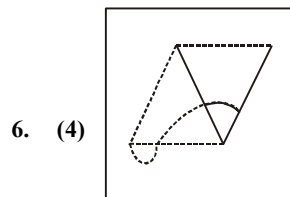
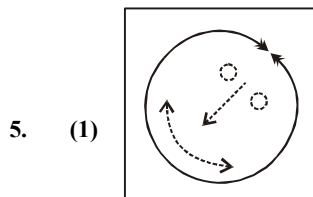
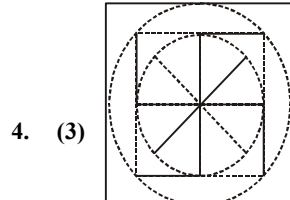
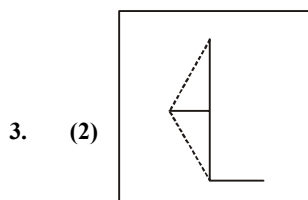
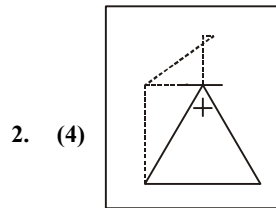
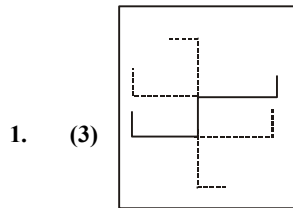
(2)

(3)

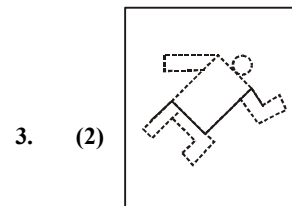
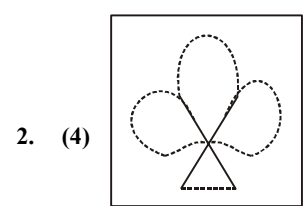
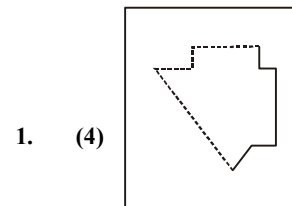
(4)

Hints & SOLUTIONS

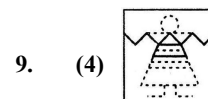
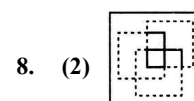
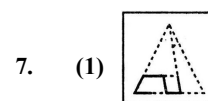
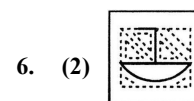
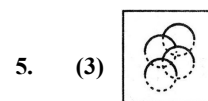
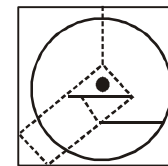
Exercise 1



Exercise 2



4. (4) Fig. (X) is embedded in figure (4) as shown below :



[Note : Figure is rotated.]