NTSE

Paper Folding and Cutting

PAPER FOLDING & CUTTING

PAPER FOLDING

The problems on paper folding involve the process of selecting a figure which would most nearly match the pattern that would be formed when a transparent sheet carrying designs on either side of a dotted line is folded along this line. The figure has to be selected from a set of four alternatives (answer or response figures).

Ex 1. In the following questions problems, a square transparent sheet with a pattern is given. Figure out from amongst four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



Sol. (B) Clearly, the lower half of the square sheet has been folded over the upper half. Hence, the bent line in the lower half will be inverted over the other half so that a 'V' shaped figure is formed.

PAPER CUTTING

The problems on paper cutting contain a set of three figures showing the manner in which a piece of paper has been folded. In each of the first two figures, a dotted line together with an arrow on it has been given indicating the line along which the paper is to be folded and the direction of the fold respectively. In the third figure, there are marks showing the position and nature of he cut made in the folded sheet. The candidate has to select one of he figures from the set of four answer figures A, B, C, and D that would most nearly match the pattern when the paper is unfolded. It will be interested to see that the designs of the cut will appear on each fold made in the paper.

Ex 2. Consider the following three figures, marked X, Y, Z showing one fold in X, another in Y and cut in Z. From amongst the answer figures A, B, C and D, select the one, showing the unfolded position of Z.



Sol. (C) In figure X, the upper triangular half of he paper has been folded over the lower half. In figure Y, the paper is refolded to a quarter triangle. In figure Z, a square has been punched in the folded paper. Clearly, the square will appear in each of the triangular quarters of the paper. Thus, when the paper is unfolded, four squares will appear symmetrically over it and it will resemble figure (C).

EXERCISE

Directions: (1 to 6) A square transparent sheet with a pattern is given in figure X. Find out from amongst the alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.





Directions: (7 to 18) A sheet has been folded in the manner as shown in X, Y and Z respectively and punched. You have to choose from the alternatives how it will look when unfolded.







	ANSWER KEY														
Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	D	B	D	Α	B	Α	D	B	D	Α	Α	В	Α	С	D
Que.	16	17	18												
Ans.	D	D	Α												