

## ONE MARK TEST

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## KOLIYANUR – VILLUPURAM DISTRICT

## ENGLISH MEDIUM

## LESSON - 1

### TEST - 3



8 The range of the relation  $R = \{(x, x^2) \mid x \text{ is a prime number less than } 13\}$  is  
(A) {2,3,5,7} (B) {2,3,5,7,11}  
(C) {4,9,25,49,121} (D) {1,4,9,25,49,121}

9  $f(x) = (x + 1)^3 - (x - 1)^3$  represents a function which is  
(A) linear (B) cubic (C) reciprocal (D) quadratic

10 If  $A = \{1,2\}$ ,  $B = \{1,2,3,4\}$ ,  $C = \{5,6\}$  and  $D = \{5, 6, 7, 8\}$  then state which of the following statement is true.  
(A)  $(A \times C) \subset (B \times D)$  (B)  $(B \times D) \subset (A \times C)$   
(C)  $(A \times B) \subset (A \times D)$  (D)  $(D \times A) \subset (B \times A)$