

(iii) All the problems in your Mathematics book that are difficult for Amit. (Yes)

EXERCISE 10 'B'

1 (i)  $2 \in A = (T)$

(ii)  $5, 6 \in A = (T)$

(iii)  $3, 4, 7 \in A = (F)$

(iv)  $2, 8 \in A = (F)$

2 (i)  $5 \in B = \text{correct}$

(v) B is the set of even no. between 2 and 6. = correct

(ii)  $2 \in B = \text{correct}$

(vi) 4, 6 and 10 are the members of the set B. = correct

(iii)  $14 \in B = \text{correct}$

(iv)  $9 \in B = \text{wrong}$   
 $= 9 \notin B$

## PREVIOUS KNOWLEDGE TEST

A. Write sets containing:

(i) The first five counting no.

$$A = \{1, 2, 3, 4, 5\}$$

(ii) the three types of angles

$$B = \{\text{right angle, acute angle, obtuse angle}\}$$

(iii) The three types of triangles

$$C = \{\text{equilateral, scalene, isosceles}\}$$

(iv) The members of your family

$$D = \{\text{Tonya, Prabhat, Seeya, Nalajyoti}\}$$

3. (i) Sets  $\{4, 9, 6, 2\}$  and  $\{6, 2, 4, 9\}$  are not the same. (F)(ii) Sets  $\{0, 1, 3, 9, 4\}$  and  $\{4, 0, 1, 3, 9\}$  are the same. (T)(iii) Sets  $\{5, 4\}$  and  $\{5, 4, 4, 5\}$  are not the same. (F)(iv) Sets  $\{8, 3\}$  and  $\{3, 3, 8\}$  are the same. (T)

(v) Collection of vowels used in the word 'ALLAHABAD' form a set. ( )

(vi) If  $P$  is the set of letters in the word 'ROOP'; then  $P = \{P, O, R\}$ . (T)(vii) If  $M$  is the set of letters used in the word 'Mumbai'; then:  $M = \{M, U, B, A, I\}$ . (T)

EXERCISE 10(C)

4. (i)  $A = \{1, 2, 3, 4, 5\}$

(ii)  $B = \{\text{right angle, acute angle, obtuse angle}\}$

(iii)  $C = \{\text{equilateral, scalene, isosceles}\}$

(iv)  $D = \{\text{Tanuja, Prabhat, Seeya, Nabayyoti, Ananya}\}$

(v)  $E = \{B, C, D, F, G, H\}$

(vi)  $F = \{A, E, I, O\}$

(vii)  $G = \{\text{Narendra Modi, Indira Gandhi, Man Mohan Singh}\}$

5. (a) Elements are 3, 8, 5, 15, 12 and 7.

(i) Elements are c, m, n, a and s.

(b) (i)  $A = \{2, 4, 8, 16, 64, 128\}$

(ii)  $B = \{3, 5, 15, 45, 75, 90\}$

6. (i)  $\{B, H, O, P, A, L\}$

(ii)  $\{E, A\}$

(iii)  $\{H, N, G, K, \dots\}$