

EXERCISE

SHORT ANSWER TYPE QUESTIONS

Q1. Write the following sets in the roster form:

- (i) $A = \{x : x \in \mathbb{R}, 2x + 11 = 15\}$ (ii) $B = \{x \mid x^2 = x, x \in \mathbb{R}\}$ (iii) $C = \{x \mid x \text{ is a positive factor of a prime number } P\}$

Sol. (i) Given that: $A = \{x : x \in \mathbb{R}, 2x + 11 = 15\}$
 $\therefore 2x + 11 = 15 \Rightarrow 2x = 15 - 11 \Rightarrow 2x = 4 \Rightarrow x = 2$
 Hence, $A = \{2\}$

(ii) Given that: $B = \{x \mid x^2 = x, x \in \mathbb{R}\}$
 $\therefore x^2 = x \Rightarrow x^2 - x = 0 \Rightarrow x(x - 1) = 0$
 $\therefore x = 0, x = 1$
 Hence, $B = \{0, 1\}$

(iii) Given that: $C = \{x \mid x \text{ is a positive factor of a prime number } P\}$
 So, the positive factors of prime number P are 1 and P .
 Hence, $C = \{1, P\}$

Q2. Write the following sets in the roster form:

- (i) $D = \{t \mid t^3 = 1, t \in \mathbb{R}\}$ (ii) $E = \left\{w \mid \frac{w-2}{w+3} = 3, w \in \mathbb{R}\right\}$

(iii) $F = \{x \mid x^4 - 5x^2 + 6 = 0, x \in \mathbb{R}\}$

Sol. (i) Given that: $D = \{t \mid t^3 = 1, t \in \mathbb{R}\}$
 $\therefore t^3 = 1$
 $\Rightarrow t^3 - t = 0 \Rightarrow t(t^2 - 1) = 0$
 $\Rightarrow t(t-1)(t+1) = 0 \Rightarrow t = 0, t = 1, t = -1$
 Hence, $D = \{-1, 0, 1\}$

(ii) Given that: $E = \left\{w \mid \frac{w-2}{w+3} = 3, w \in \mathbb{R}\right\}$

$\therefore \frac{w-2}{w+3} = 3$
 $\Rightarrow 3w + 9 = w - 2 \Rightarrow 3w - w = -2 - 9$
 $\Rightarrow 2w = -11 \Rightarrow w = \frac{-11}{2} \in \mathbb{R}$

Hence, $w = \left\{\frac{-11}{2}\right\}$

Mathematics Exemplor Grade 11

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