

## 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

**Katrin Zwirgmaier**



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