CLASS 11

## SETS

## SUB SETS

## EXERCISE

Q.1	If every element of set X is in set Y then		
	(a) X⊂Y	(b) Y⊂X	
	(c) X=Y	(d) X≠Y	
Q.2	2 If set A is equal to set B then		
	(a) A⊂B	(b) B⊂A	
	(c) $A \subset B$ and $B \subset A$	(d) neither $A \subset B$ nor $B \subset A$	
Q.3	<b>2.3</b> Let $X = \{1,2,3\}, Y = \{\}, Z = \{1,2,3\}$ , then which of the following		
	(a) X⊂Y	(b) Only Y⊂X and Y⊂Z	
	(c) Z⊂Y	(d) $Y \subset X$ and $Y \subset Z$ and $X \subset Z$	
Q.4	Let $A = \{2,3,5\}$ and $B = \{3,5,7\}$ . Which of the following is true?		
	(a) A⊂B	(b) B⊂A	
	(c) A=B	(d) A⊂A	
Q.5	Let X be set of rational numbers. Which of the following is superset of X?		
	(a) Set of real numbers		
	(b) Set of natural numbers		
	(c) Set of whole numbers		
	(d) Set of integers		
Q.6	Let X be set of rational numbers. Which of the following is not subset of X?		
	(a) Set of real numbers		
	(b) Set of natural numbers		
	(c) Set of whole numbers		
	(d) Set of integers		

CLASS 11

Q.7	<b>Q.7</b> Let $A = \{1, 3\}, B = \{1, 5, 9\}, C = \{1, 3, 5, 7, 9\}$ . Then		
	(a) A⊂B	(b) B⊂A	
	(c) $C \subset B$ and $A \subset C$	(d) $B \subset C$ and $A \subset C$	
Q.8	If an element $x \in A$ and $A \subset B$ then $x \in B$ .		
	(a) True		
	(b) False		
Q.9	If $X \in A$ and $A \subset B$ then $X \subset B$ .		
	(a) True		
	(b) False		
Q.10	Let $A = \{1, 2, \{3, 4\}, 5\}$ . Which of the following is true?		
	(a) $\{3, 4\} \subset A$	(b) $\{3, 4\} \in A$	
	(c) $\{\{3, 4\}\} \subset A$	(d) {1, 2, 5} ⊂ A	

## **ANSWER KEY**

- **1.** (a)
- **2.** (c)
- **3.** (d)
- **4.** (d)
- **5.** (a)
- **6.** (a)
- **7.** (d)
- **8.** (a)
- **9.** (b)
- **10.** (a)