CLASS 11

## SETS

## SUB SETS

## EXERCISE

Q.1	If all elements of set X belong to set Y, then		
	(a) X⊂Y	(b) Y⊂X	
	(c) X=Y	(d) $X \neq Y$	
Q.2	If set A is identical 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	Consider X= $\{1,2,3\}$ , Y= $\{\}$ , Z= $\{1,2,3\}$ , Which of the following statements is accurate?		
	(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	Consider A= $\{2,3,5\}$ and B= $\{3,5,7\}$ . Which of the following statements is co		
	(a) A⊂B	(b) B⊂A	
	(c) A=B	(d) A⊂A	
Q.5	Consider the set X to be the set of rational numbers. Which of the following sets superset of X?		
	(a) Set of real numbers	(b) Set of natural numbers	
	(c) Set of whole numbers	(d) Set of integers	
Q.6	Consider the set X as the set of rational numbers. Which of the following sets is not included in X as a subset?		
	(a) Set of real numbers	(b) Set of natural numbers	
	(c) Set of whole numbers	(d) Set of integers	

CLASS 11

Q.7	Consider 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 $x \in B$ is this statement true.		
	(a) True		
	(b) False		
Q.9	If X is an element of set A and A is a subset of B, then X is also a subset of E		
	(a) True		
	(b) False		
Q.10	Consider A = $\{1, 2, \{3, 4\}, 5\}$ . Which of the following statements is correct?		
	(a) $\{3, 4\} \subset A$	(b) {3, 4} ∈ A	
	(c) $\{\{3, 4\}\} \subset A$	(d) $\{1, 2, 5\} \subset A$	
	ANSWER KEY		

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