CLASS 11

SETS

COMPLEMENT OF SETS

EXERCISE

Q.1	What does A' denotes when U is a universal set?		
	(a) A	(b) Φ	
	(c) U	(d) U-A	
Q.2	If $A = \{2,3,5\}$ and U be the set of prime factors of 210 then find A'.		
	(a) {2,3,5}	(b) {2,3,5,7}	
	(c) {7}	(d) Φ	
Q.3	Is (A')'=A?		
	(a) True		
	(b) False		
Q.4	Let U = $\{1, 2, 3, 4, 5, 6\}$, A = $\{1,4\}$ and B = $\{2,3,5\}$. Find A'.		
	(a) {2,3,5,6}	(b) {1,2,3}	
	(c) {1,4,6}	(d) {1,2,3,4,5,6}	
Q.5	Let $U = \{1, 2, 3, 4, 5, 6\}$, $A = \{1,4\}$ and $B = \{2,3,5\}$. Find B'.		
	(a) {2,3,5,6}	(b) {1,2,3}	
	(c) {1,4,6}	(d) {1,2,3,4,5,6}	
Q.6	Let U = {1, 2, 3, 4, 5, 6}, A = {1,4} and B = {2,3,5}. Find A' \cap B'.		
	(a) {2,3,5,6}	(b) {1,2,3}	
	(c) {6}	(d) {1,2,3,4,5,6}	
Q.7	Let U = $\{1, 2, 3, 4, 5, 6\}$, A = $\{1,4\}$ and B = $\{2,3,5\}$ (a) True	}. Then A'∩B' is equal to (A∪B)'.	

(b) False

CLASS 11

Q.8	Which of the following is equal to $A \cup A'$?		
	(a) U	(b) A	
	(c) A'	(d) U'	
Q.9	If A is set of equilateral triangles then A' is		
	(a) set of isosceles triangles		
	(b) set of scalene triangles		
	(c) union of sets of scalene and isosceles triangles		
	(d) intersection of sets of scalene and isosceles triangles		
Q.10	Which of the following is not equal to set A?		
	(a) A∩U	(b) A∩Φ'	
	(c) $A \cup A'$	(d) $A \cup \Phi$	
	ANSWER KEY		

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