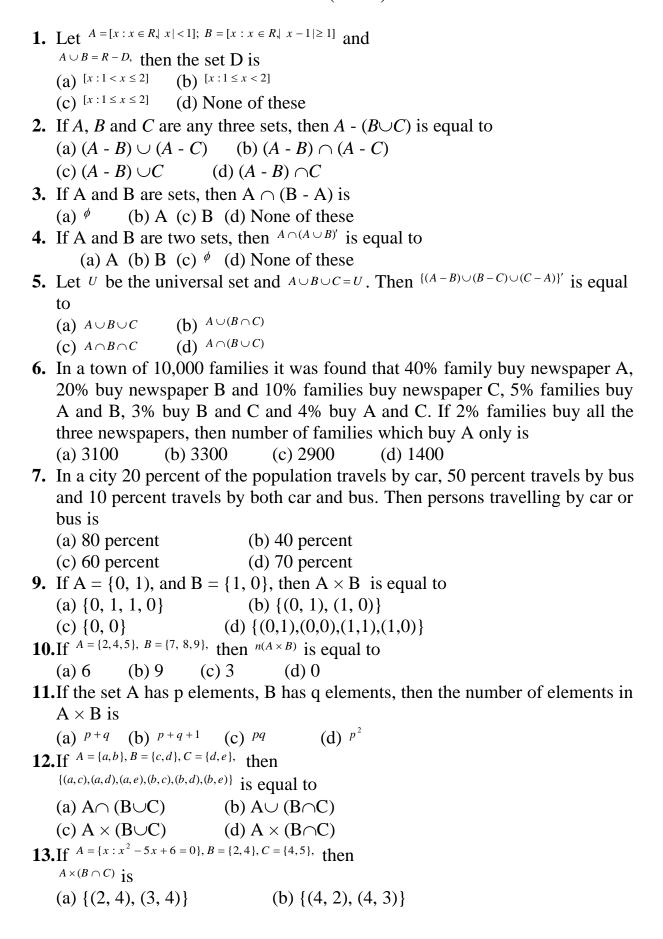
## **DPP-2 (SETS)**



(c)  $\{(2, 4), (3, 4), (4, 4)\}$ 

(d)  $\{(2,2), (3,3), (4,4), (5,5)\}$ 

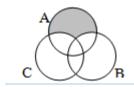
14. In a class of 55 students, the number of students studying different subjects are 23 in Mathematics, 24 in Physics, 19 in Chemistry, 12 in Mathematics and Physics, 9 in Mathematics and Chemistry, 7 in Physics and Chemistry and 4 in all the three subjects. The number of students who have taken exactly one subject is

(a) 6

(b) 9

(c) 7

(d) All of these



15.

The shaded region in the given figure is

(a)  $A \cap (B \cup C)$ 

(b)  $A \cup (B \cap C)$ 

(c)  $A \cap (B - C)$ 

(d) A - (B  $\cup$  C)

**16.** If A and B are two sets then  $(A - B) \cup (B - A) \cup (A \cap B)$  is equal to

(a)  $A \cup B$ 

(b)  $A \cap B$  (c) A

(d) B

17. Let A and B be two sets then  $(A \cup B)' \cup (A' \cap B)$  is equal to

(a) A' (b) A

(c) B' (d) None of these

## **Answers**

1)b 2) b 3) a 4)c 5 )c 6 )b 7)c 9)d 10)b 11)c 12)c 13)a14)c15)d 16)a 17)a