



22. (i) Applying set operations find the L.C.M. of the numbers 15, 25 and 30.  
 (ii) If  $r, s, t$  are prime numbers and  $p, q$  are the positive integers such that LCM of  $p, q$  is  $r^2t^4s^2$ , then find the number of ordered pair  $(p, q)$ .
23. Using a Venn diagram or otherwise, solve the following problem:  
 In a class of 70 students, each student has taken either English or Hindi or both. 45 students have taken English and 30 students have taken Hindi. How many students have taken both English and Hindi?
24. Use a Venn diagram to solve the following problem:  
 In a statistical investigation of 1003 families of Kolkata it was found that 63 families had neither a radio nor a T.V., 794 families had a radio and 187 a television. How many families in that group had both a radio and a T.V.?
25. A market research group conducted a survey of 1000 consumers and reported that 720 consumers liked product A and 450 consumers liked product B. What is the least number that must have liked both products?
26. In a town 60% read magazine A, 25% do not read magazine A but read magazine B. Calculate the percentage of those who do not read any magazine. Also find the highest and lowest possible figures of those who read magazine B.
27. (i) Two finite sets A and B have respectively  $p$  and  $q$  elements. If the total number of subsets of A is 56 more than the total number of subsets of B, then find the values of  $p$  and  $q$ .  
 (ii) Two finite sets A and B have  $m$  and  $n$  elements respectively. Find the maximum and minimum elements are in  $A \cup B$ .



### Long Answer Type Questions



1. For a finite set A, the number of elements in A is denoted by  $n(A)$ . Use a Venn diagram (or otherwise) to prove that, for any two sets A, B  
 $n(A \cup B) = n(A) + n(B) - n(A \cap B)$
2. Given,  $A = \{x : 0 < x \leq 2\}$  and  $B = \{x : 1 < x < 3\}$ ; find  
 (i)  $A \cap B$  (ii)  $A \cup B$   
 (iii)  $A - B$  (iv)  $(A \cup B) - (A \cap B)$
3. Let  $A = \{x : 2 \leq x < 5\}$  and  $B = \{x : 3 < x < 7\}$  be two subsets of the universal set,  $S = \{x : 0 < x \leq 10\}$ ; verify that,  $(A \cup B)^c = A^c \cap B^c$ .
4. If  $P = \{p, q, r, s, t, u\}$  and  $Q \cap R = \{q, r, v, w\}$ , find  
 (i)  $(P \cup Q) \cap (P \cup R)$  (ii)  $(P - Q) \cup (P - R)$
5. If A, B, C be three subsets of the universal set S where  $S = \{1, 2, 3, 4, 5, 6, 7\}$ ,  $A = \{1, 3, 5, 6\}$  and  $B \cap C = \{1, 2, 6\}$ , find  $(A \cup B) \cap (A \cup C)$  and  $B^c \cup C^c$ .
6. If  $U = \{a, b, c, d, e, f\}$  be the universal set and A, B, C are three subsets of U, where  $A = \{a, c, d\}$  and  $B \cup C = \{a, d, e, f\}$ , find  
 (i)  $(A \cap B) \cup (A \cap C)$  and (ii)  $(B^c \cap C^c)$
7. Given,  $X \cup Y = \{1, 2, 3, 4\}$ ,  $X \cup Z = \{2, 3, 4, 5\}$ ,  $X \cap Y = \{2, 3\}$  and  $X \cap Z = \{2, 4\}$ ; find X, Y and Z.
8. Verify the following relations using Venn diagrams:  
 (i)  $(A \cup B) \cap (A \cup C) = A \cup (B \cap C)$   
 (ii)  $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$   
 (iii)  $(A \cup B)^c = A^c \cap B^c$  [Council Sample Question '18]  
 (iv)  $(A \cap B)^c = A^c \cup B^c$   
 (v)  $A - (B \cap C) = (A - B) \cup (A - C)$   
 (vi)  $A - (B \cup C) = (A - B) \cap (A - C)$   
 (vii)  $(A - C) \cap (B - C) = (A \cap B) - C$
9. (i) Draw a Venn diagram of three non-empty sets A, B and C such that  
 $A \subset B$ ,  $C \not\subset B$ ,  $A \cap C = \phi$   
 (ii) If A, B and C are three non-empty subsets of the universal set S, draw a Venn diagram to illustrate the following case:  
 $A \subset B$ ,  $B \cap C \neq \phi$ ,  $A \cap C = \phi$ ,  $C \not\subset B$
10. For any three sets A, B and C prove the followings:  
 (i)  $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$   
 (ii)  $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$   
 (iii)  $A \cup (B \cup C) = (A \cup B) \cup C$   
 (iv)  $A \cap (B \cap C) = (A \cap B) \cap C$   
 (v)  $(A \cup B)^c = A^c \cap B^c$  (vi)  $(A \cap B)^c = A^c \cup B^c$   
 (vii)  $A - (B \cup C) = (A - B) \cap (A - C)$   
 (viii)  $A - (B \cap C) = (A - B) \cup (A - C)$   
 (ix)  $(A \cap B) - C = (A - C) \cap (B - C)$   
 (x)  $(A \cup B) - C = (A - C) \cup (B - C)$
11. Applying Set Algebra, prove the followings:  
 (i)  $A \cap (B - A) = \phi$  (ii)  $A \cup (B - A) = A \cup B$   
 (iii)  $(A \cap B) - C = (A - C) \cap (B - C)$   
 (iv)  $(A \cup B) - C = (A - C) \cup (B - C)$
12. In an engineering college, 80 students get chance for Computer Science, 75 for Information Technology, 72 for Electronics. If 60 students get chance in 1st and 2nd, 50 in 2nd and 3rd, 40 in 1st and 3rd and 30 get chance in all three branches, how many seats are there in the engineering college? [The college has only three disciplines.]

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