	BCM SCHOOL BASANT AVENUE DUGRI ROAD LUDHIANA ASSIGNMENT (SETS, RELATION AND FUNCTION) CLASS XISC	
1	The set (A ∩ B')' ∪ (B ∩ C) is equal to A) $A' \cup B$ B) $A' \cap B$ C) $A' \cup C'$ D) $A' \cup B \cup C$	1
2	Find domain of the function $f(x) = \dfrac{1}{\sqrt{x+[x]}}$ A)$(0,\infty)$ B)$[0,\infty)$ C)$(-\infty,\infty)$ D)$[1,\infty]$	1
3	A and B are two sets such that n (A − B) = 14 + x, n (B − A) = 3x and n (A ∩ B) = x. If n (A) = n (B), Find (i) the value of x (ii) n (A ∪ B)	2
4	Prove that if A ∪ B = C and A ∩ B = ϕ then A = C − B <center>OR</center> If A and B are subsets of the universal set U, then show that A ⊂ B ⟺ A ∪ B = B	2
5	If $f(x) = \dfrac{x^2 - 3x + 1}{x-1}$, find $f(-2) + f\left(\dfrac{1}{3}\right)$ <center>OR</center> Find the domain and the range of the function $f(x) = 3x^2 - 5$ Also find f(-3) and the numbers which are associated with the number 43 m its range.	2
6	Find the domain and the range of the function $f(x) = \sqrt{x^2 - 4}$ <center>OR</center> Find the domain and the range of the function f defied by $f(x) = \dfrac{x+2}{|x+2|}$	3
7	Two finite sets have m and n elements respectively. The total number of subsets of first set is 56 more than the total number of subsets of the second set. find the values of m and n.	4