

SECTION A: (1 MARK)		
1.	If $n(A) = 8$, $n(B) = 7$ and $n(A \cup B) = 12$, find: (i) $n(B - A)$ (ii) $n[P(A)]$ (iii) $n[(A - B) \cup (B - A)]$	
2.	If $n(A - B) = 14 + x$, $n(B - A) = 3x$, $n(A \cap B) = x$ and $n(A \cup B) = 74$. Find $n(A)$ and $n(B)$.	
3.	Describe the following sets in roster form : (i) $A = \left\{ x : x \in \mathbb{N}, \frac{-11}{2} \leq x \leq \frac{11}{2} \right\}$ (ii) $B = \left\{ x : x = \frac{n}{n^2 + 1}, 1 \leq n \leq 5, n \in \mathbb{N} \right\}$ (iii) $C = \{x : x \text{ is a positive integer less than } 10 \text{ and } (2^x - 1) \text{ is an odd number}\}$.	
4.	If $A = \{1, 3, 5, 7, 9, 11, 13, 15, 17\}$, $B = \{2, 4, 6, \dots, 18\}$ and \mathbb{N} is the universal set, then find $A' \cup [(A \cup B) \cap B']$.	
5.	Describe the following sets in set- builder form: (i) $A = \left\{ 0, \frac{1}{6}, \frac{2}{7}, \frac{3}{8}, \frac{4}{9} \right\}$ (ii) $B = \{0, 3, 8, 15, 24, 35, 48\}$	
6.	Write each of the following sets as an interval : (i) $\{x : x \in \mathbb{R}, -1 < x \leq 0\}$ (ii) $\{x : x \in \mathbb{R}, 3 \leq 2x + 1 < 4\}$	
7.	Write each of the following intervals as a set: (i) $\left[\frac{3}{2}, \infty \right)$ (ii) $\left[2, \frac{7}{2} \right]$ (iii) $\left(0, \frac{1}{4} \right)$	
SECTION B: (2 MARKS)		
8.	Given $n(A) = 285$, $n(B) = 195$, $n(\cup) = 500$, $n(A \cup B) = 400$. Find $n(A' \cup B')$.	
9.	Let A and B be two finite sets such that $n(A) = m$ and $n(B) = n$. If ratio of cardinal numbers of power sets of A and B is 64 and $n(A) + n(B) = 32$, find the value of m and n .	$m = 19$ $n = 13$
10.	Find power set of the set $A = \{a, \{b\}, c\}$	
SECTION B: (4 MARKS)		
11.	Verify De' Morgan's laws: $U = \{a, b, c, d, e, f, g, h, i, j, k\}$, $A = \{c, e, f, h, i, j\}$, $B = \{a, b, d, f, i\}$.	
12.	Two finite sets have m and n elements. The number of subsets of the first set is 112 more than that of the second set. Find the value of m and n .	$m = 7$ $n = 4$

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Khattar Dinesh,khattar Anita

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