CBT Questions of Mathematics (JUNE –

JULY)

(d) {3,6}

Class- XI

CASE STUDY BASED QUESTIONS-

•	nal numbers of two finite sets	es two sets A and B having finite numbe A and B is 9. The ratio of number of
Based on the above information	n solve the following questions	S-
(i) The cardinal number of set	A is-	
(a) 2 (d) 8	(b) 3	(c) 6
(ii) The cardinal number of set	B is-	
(a) 2 (d) 8	(b) 3	(c) 6
(iii) The maximum value of n(A	UB) is-	
(a) 3 (d) 9	(b) 6	(c) 8
(iv) The minimum value of n(A	(UB) is-	
(a) 3 (d) 9	(b)6	(c) 8
	x is a prime number less than	ooja, then wrote three sets as A= 9}. After explaining she asked following
Based on the above information	n answer the following questic	ons-
1. The value of n(A U B) is-		
(a) 7 (d) 10	(b) 8	(c) 9
2. The value of n(B ∩ C) is-(a) 4(d) 1	(b) 3	(c) 2
 The value of (A∩C)-B is- (a) φ 	(b) {1,2}	(c) {5}

 3. Assertion (A): If two sets A and B are equal, then they have the same number of elements. Reason (R): If two sets have the same number of elements, they are equal. (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true. (e) Both A and R are false. 						
Reason ((a) Both (b) Both (c) A is t (d) A is	(R): The union of se A and R are true a	ts A and B is denote nd R is the correct out R is not the corr	•			
Answer key						
1(i) (c)	(ii) (b)	(iii) (d)	(iv) (b)			
2 (i) (a)	(ii) (d)	(iii) (a)	(iv) (b)			
		same elements, not an still be different (e	just the same number of .g., {1, 2} and {3, 4}	elements. Two sets with		

(b) 4

(c)3

4. The value of n (A U B) ∩C is-

ASSERTION AND REASONING QUESTIONS-

(a) 8

(d) 2