

C. A is proper subset of B

D. None of these

## ST. LAWRENCE HIGH SCHOOL

## A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Arithmetic Class: 7 Date: 29.04.20 Duration: 40 min Worksheet Solutions 15 Full Marks: 15

## **SET THEORY CONTINUED**

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Choose the Correct options:  1 Which of the following statements denote an empty set?  A. { } B. set () C. [0]. D. (<>)		
<ul> <li>2. The Cardinality of the set of even natural numbers less than 10 is</li> <li>A. 2</li> <li>B. 4</li> <li>C. 8</li> <li>D. None of these</li> </ul>		
3: If A and B are sets and A∪ B= A ∩ B, then     A.A = Φ     B.B = Φ     C.A = B     D. none of these		
4: Let S be an infinite set and S1, S2, S3, Sn be sets such that S1 US2 US3USn = S then A. at least one of the sets Si is a finite set B. not more than one of the set Si can be finite C. at least one of the sets Si is an infinite set D. none of these		
<ul> <li>5: If X and Y are two sets, then X ∩ (Y ∪ X) equals</li> <li>A. X</li> <li>B. Y</li> <li>C. Ø</li> <li>D. None of these</li> </ul>		
6: Which of the following sets are null sets?  A. {0}  B. Ø  C. { }  D. Both (b) & (c)		
7. If $A \cap B^c = \emptyset$ $A. A = B$ $B. B A$		

8. A <sup>c</sup> - B <sup>c</sup>	is equal to
	B-A
B.	A-B
	A=B
	None of these
9. If A =	Ø then total number of elements in {A} are
	No element
	Zero
	two
	one
2.	V
A. <b>B.</b>	mallest set A such that $A \cup \{4,5\} = \{1,2,3,4,5\}$ is $\{3,4,5\}$ <b>{1.2.3}</b> $\{1,2\}$
D.	{ 1,2,3,4,5}
<b>A.</b> B. C.	9
to A. <b>B.</b> C.	<b>0</b> 4
D.	15
	4 3
A. B. <b>C.</b>	& B are sets and $n(A \cap B - A \cup B) = \emptyset$ , then $A = \emptyset$ $B = \emptyset$ A = B None of these
A. {B,E, B. { <b>R, I,</b> C. {1,2,3	ch of the following are equal sets? A,R} and {D,E,A,R} D, E} and {D, I, R,E} 3,4} and {12, 23, 34,41} 12, 13} and {14, 15, 16}