SLIP TEST 2

SUB: MATHEMATICS **CLASS: X**

CHAPTER: RELATIONS AND FUNCTIONS **TOPIC: CARTESIAN PRODUCT and RELATIONS**

I] Choose the correct answers **10x1=10**

1.If the ordered pairs (c+2,5) and (-2, d-3) are equal then (c, d) is----------
A) (-4,8) B) (4, -8) C) (0, 2) D) (8, -4)

2.If B x A = {(0,1), (0,2), (1,1), (1,2)} then value of A is---------

A) (0,0) B) (1,1) C) (1, 2) D) (0, 1)

3.If A= {1, 2, m, n}, B =ø then A x B=----------

A) {0,0} B) {1, 2} C) {0} D) ø

4. If A= {1}, B= {1,2} then the graphical representation of A x B is a --------

A) line B) vertical line segment C) Horizontal line segment D) Polygon

5.Cartesian Product of sets are commutative when the given sets are--------

A) Equivalent B) equal C) subsets D) finite sets

6.If n(A) = p, n(B) = q then the total number of relations that exist from A to B is-------

A) 2^p **B)** 2^q **C)** 2^{pq} **D)** $2^{pq}-1$

7.If n(A) = p, n(B) = q then the total number of non-empty relations that exist from A to B is--

A) 2^p **B)** 2^q **C)** 2^{pq} **D)** $2^{pq}-1$

8.If there are 512 relations from set A = {1,2,3} to a set B, then the number of elements in B is

A)3 B)6 C)4 D) 8

9.If A= {5,6,7,8}, R= {(5,3) (6,4) (7,5)}, B= {3,4,5} then what is the Domain of R?

A) {5,6,7,8} B) {5,6,7} C) {3,4,5} D) {3,4,5,6}

10.Relation is a subset of---------

A) Function B) Domain C) Codomain D) Cartesian product