RELATION AND FUNCTIONS

<u>MCQ</u>:

1

c) reflexive, symmetric and transitive d) both symmetric and transitive but not reflexive

Assertion -reasoning:

a) Both A and R are true and R is the correct explanation of A

b) Both A and R are true and R is not the correct explanation of A

c) A is true but R is false

d) A is false but R is true.

11. Assertion(A): a relation R ={ |a-b| < 2 } defined on the set A ={ 1,2,3,4,5} is reflexive.

Reason(R): A relation R on the set A is said to reflexive if for (a,b) ϵ R and (b,c) ϵ R we have (a,c) ϵ R

12. Assertion(A): Let A= {2,4,6}, B={3,5,7,9} and defined a function f = { (2,3),(4,5), (6,7)} from A to B, then f is not onto.

Reason(R): A function f: $A \rightarrow B$ is said to be onto, if every element of B is the image of some element of A under f.

13. Assertion(A): The smallest integer function f(x) is one-one.

Reason(R): A function is one-one if $f(x) = f(y) \Rightarrow x = y$.

14. Assertion(A): The function f: $R \rightarrow R$, f(x) = |x| is not one-one.

Reason(R): The function f(x) = |x| is not onto.

Hint or Answer keys of Selected Questions

1 – b	4 - b	7 - b	10 – a	13 - d
2 – b	5 - d	8 - d	11 – c	14 - b
3 – d	6 - b	9 - d	12 – d	