CHAPTER – 1
Relations and Functions
COMPETENCY BASED QUESTIONS:

Question 1- Let $A = [-1,1]$, then, discuss whether the following functions defined on A are one-one onto or bijective.

(i) $f(x) = x/2$

(ii) $g(x) = |x|$

(iii) $h(x) = x |x|$

(iv) $k(x) = x^2$

Question 2-

Each of the following defines a relation of N

(i) x is greater than $y, x, y \in N$.

(ii) $x + y = 10, x, y \in N$.

(iii) xy is square of an integer $x, y \in N$.

(iv) $x + 4y = 10, x, y \in N$

Determine which of the above relations are reflexive, symmetric and transitive.

Question 3-

Let * be the binary operation defined on Q. Find which of the following binary operations are commutative

(i) $a * b = a - b, \forall a, b \in Q$

(ii) $a * b = a^2 + b^2, \forall a, b \in Q$

(iii) $a * b = a + ab, \forall a, b \in Q$

(iv) $a * b = (a - b)^2, \forall a, b \in Q$

Question 4- Let $a = \{1, 2, 3, ...,9\}$ and R be the relation in $A \times a$ defined by $(a , b) R (c , d)$ if $a + d = b + c$ for $(a , b), (c , d)$ in $a \times a$ Prove that R is an equivalence relation and also obtain the equivalent class $[(2, 5)]$.

Question 5-

Let $A = R - (3), = R - (1)$. If $f : A \rightarrow B$ be defined by $f(x) = \dfrac{x-2}{x-3}, \forall x \in A$. Then, show that $f(x)$ is objective.

Question 6- Given, $A = \{2,3,4\}$; $B = \{2,5,6,7\}$. Construct an example of each of the following:

(i) an injective mapping from a to B.

(ii) a mapping from a to b which is not injective.

(iii) a mapping from b to A.

Question 7- Let R be relation defined on the set of natural number N. Find the domain and range of the relation. Also verify whether R is reflexive, symmetric and transitive.

$R = \{(x, y) : x \in N, y \in N, 2x + y = 41\}$

Question 8- If * be binary operation defined on R by:

$a * b = 1 + ab, \forall a, b \in R$

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