2. Let R={(1,3),(4,2),(2,4),(2,3),(3,1)} be a relation on the set A={1,2,3,4}.The relation R is

A) a function

B) reflexive

C) not symmetric

D) transitive

Correct Answer: C

Solution : Let R={(1, 2),(4, 2),(2, 3),(3, 1)} be a relation on the set A = {1, 2, 3, 4}. Since (2, 4)∈R and (3, 2) ∈R, R is not a function. Since (1, 3)∈R and (3, 1)∈R, but (1, 1)∉R, R is not transitive. Since (2, 3)∈R but (3, 2)∉R, R is not symmetric. Since (4, 4)∉R, R is not reflexive.