Whether the relation R on the set of all integers is reflexive, symmetric, anti symmetric, or transitive, where (x, y)∈R if and only if xy ≥1

► Anti symmetric
► Transitive
► Symmetric
► **Both Symmetric and transitive**

http://www.maths.uq.edu.au/courses/MATH1061/wkbooksols/chap10/S10_5_3solution.htm

Question No: 4 (Marks: 1) - Please choose one
The inverse of given relation R = {(1,1),(1,2),(1,4),(3,4),(4,1)} is

► {(1,1),(2,1),(4,1),(2,3)}
► {(1,1),(1,2),(4,1),(4,3),(1,4)}
► **{(1,1),(2,1),(4,1),(4,3),(1,4)}**

Question No: 5 (Marks: 1) - Please choose one
A circuit with one input and one output signal is called.

► **NOT-gate (or inverter) (Page 31)**
► OR- gate
► AND- gate
► None of these

Question No: 6 (Marks: 1) - Please choose one
A sequence in which common difference of two consecutive terms is same is called

► geometric mean
► harmonic sequence
► geometric sequence
► **arithmetic progression (Page 146)**

Question No: 7 (Marks: 1) - Please choose one
If the sequence $\{a_n\} = 2.(-3)^n + 5^n$ then the term a! is

► -1
► 0
► 1
► 2

Question No: 8 (Marks: 1) - Please choose one
How many integers from 1 through 100 must you pick in order to be sure of getting one that is divisible by 5?

► 21
► 41
► **81 (Page 241)**
► 56

Question No: 9 (Marks: 1) - Please choose one
What is the probability that a randomly chosen positive two-digit number is a multiple of 6?

► 0.5213
► **0.167 (Page 254)**