► None of these

Question No: 26 (Marks: 1) - Please choose one
If r is a positive integer then gcd(r,0)=

► **r**
► 0
► 1
► None of these

Question No: 27 (Marks: 1) - Please choose one
Combinatorics is the mathematics of counting and arranging objects

► **True (Page 209)**
► False
► Cannot be determined

Question No: 28 (Marks: 1) - Please choose one
A circuit that consist of a single vertex is called

► **Trivial (Page 322)**
► Tree
► Empty

Question No: 29 (Marks: 1) - Please choose one
In the planar graph, the graph crossing number is

► **0 (Page 314)**
► 1
► 2
► 3

Question No: 30 (Marks: 1) - Please choose one
How many ways are there to select five players from a 10 member tennis team to make a trip to a match to another school?

► **C(10,5)**
► C(5,10)
► P(10,5)
► None of these

Solution: The answer is given by the number of 5-combinations of a set with ten elements. By Theorem 2, the number of such combinations is

$$C(10, 5) = \frac{10!}{5!\,5!} = 252.$$

◄

Question No: 31 (Marks: 1) - Please choose one
The value of 0! Is

► 0
► **1**