$$\frac{(n+1)!}{(n-1)!}$$

The value of is

- 0
- n(n-1)
- n^2+n
- Cannot be determined

$$\frac{(n+1)!}{(n-1)!}=\frac{(n+1).n.\cancel{(n-1)!}}{\cancel{(n-1)!}}=(n+1).n=n^2+n$$

Question No: 24 (Marks: 1) - Please choose one
Any two spanning trees for a graph

- Does not contain same number of edges
- Have the same degree of corresponding edges
- **contain same number of edges (Page 329)**
- May or may not contain same number of edges

Question No: 25 (Marks: 1) - Please choose one
When 3^k is even, then $3^k+3^k+3^k$ is an odd.

- True
- **False**

Question No: 26 (Marks: 1) - Please choose one
Quotient –Remainder Theorem states that for any positive integer d, there exist unique integer q and r such that n=d.q+ r and _____.

- **0≤r<d (Page 201)**
- 0<r<d
- 0≤d<r
- None of these

Question No: 27 (Marks: 1) - Please choose one
The value of $\lceil x \rceil$ for x = -3.01 is

- -3.01
- **-3**
- -2
- -1.99

$$\lfloor -3.01 \rfloor = \lfloor -4+0.99 \rfloor = -4$$
$$\lceil -3.01 \rceil = \lceil -4+0.99 \rceil = -4+1 = -3$$