Question No: 15 (Marks: 1) - Please choose one
If a and b are any positive integers with b≠0 and q and r are non negative integers such that a= b.q+r then

- **gcd(a,b)=gcd(b,r) (Page 207)**
- gcd(a,r)=gcd(b,r)
- gcd(a,q)=gcd(q,r)

Question No: 16 (Marks: 1) - Please choose one
The greatest common divisor of 27 and 72 is

- 27
- **9**
- 1
- None of these

Solution:
1.Divide 72 by 27:
This gives $72 = 27 \cdot 2 + 18$
2.Divide 27 by 18:
This gives $27 = 18 \cdot 1 + 9$
3.Divide 18 by 9:
This gives $18 = 9 \cdot 2 + 0$
Hence greatest common divisor (72, 27) = 9.

Question No: 17 (Marks: 1) - Please choose one
In how many ways can a set of five letters be selected from the English Alphabets?

- **C(26,5)**
- C(5,26)
- C(12,3)
- None of these

Question No: 18 (Marks: 1) - Please choose one
A vertex of degree greater than 1 in a tree is called a

- **Branch vertex (Page 323)**
- Terminal vertex
- Ancestor

Question No: 19 (Marks: 1) - Please choose one
For the given pair of graphs whether it is