None of these

Question No: 21 (Marks: 1) - Please choose one

The method of loop invariants is used to prove correctness of a loop with respect to certain pre and postconditions.

- True (Page 203)
- ➤ False
- None of these

Question No: 22 (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: 23 (Marks: 1) - Please choose one

If a tree has 8 vertices then it has

- ▶ 6 edges
- > 7 edges
- 9 edges

Question No: 24 (Marks: 1) - Please choose one Complete graph is planar if

- \rightarrow n = 4
- ➤ n>4
- $n \le 4$ (Page 315)

Question No: 25 (Marks: 1) - Please choose one

The given graph is

