**Question 4**

1. Critical path = B-E-G = 7 + 11 +5 = 23
2. To complete the project, it will take 23 days.
3. Following are the ES, LS, EF and LF of each activity



1. Slack time of each activity
* Activity 2 = 3
* Activity 3 = 0
* Activity 4 = 3
* Activity 5 = 0
* Activity 6 = 0

**Question 12**

Network Diagram



Critical Path = A2 – A3 – A4 - A5 – A7 – A8 – A9

Estimated Completion Time = 69 days

**Question 14**

The critical path: A – D – G – J

The above activities need to be observed closely.

 If activity B is delayed by 2 more days, it will also delay the project by 2 days as the activity G is dependent on both Activity A and B to be completed on time – and are both considered critical.