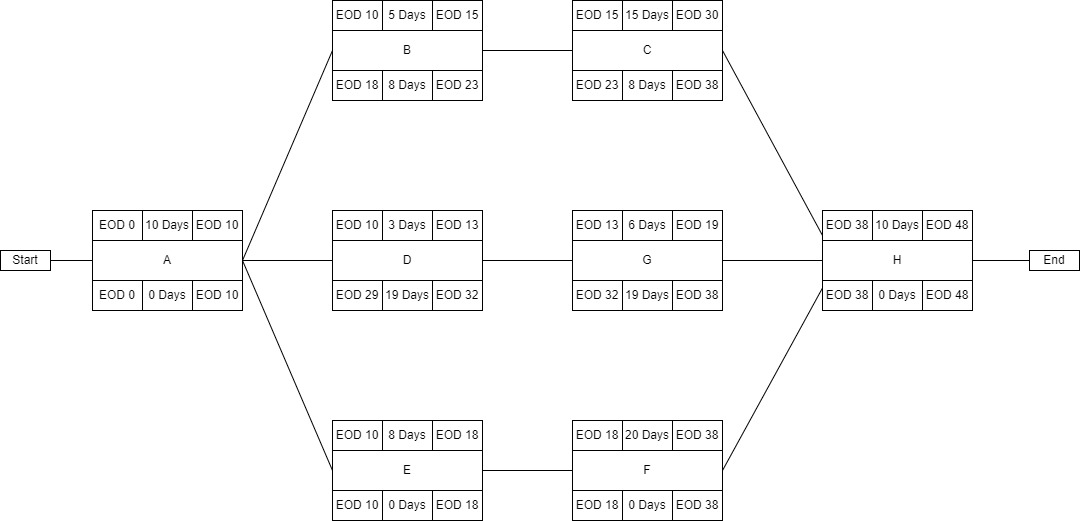
1. A)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Activity** | **Dependency** | **Duration (Days)** | **(End of Day) ES** | **(End of Day) EF** | **(End of Day) LS** | **(End of Day) LF** | **Float (Days)** |
| **A** | NONE | 10 | 0 | 10 | 0 | 10 | 0 |
| **B** | A | 5 | 10 | 15 | 18 | 23 | 8 |
| **C** | B | 15 | 15 | 30 | 23 | 38 | 8 |
| **D** | A | 3 | 10 | 13 | 29 | 32 | 19 |
| **E** | A | 8 | 10 | 18 | 10 | 18 | 0 |
| **F** | E | 20 | 18 | 38 | 18 | 38 | 0 |
| **G** | D | 6 | 13 | 19 | 32 | 38 | 19 |
| **H** | C, F, G | 10 | 38 | 48 | 38 | 48 | 0 |

 B) Activity Network:

C) Critical Path: A -> E -> F -> H Duration: 48 Days.

Question 2:

1. Activity A:

Activity B:

Activity C:

Activity D:

Activity E:

Activity F:

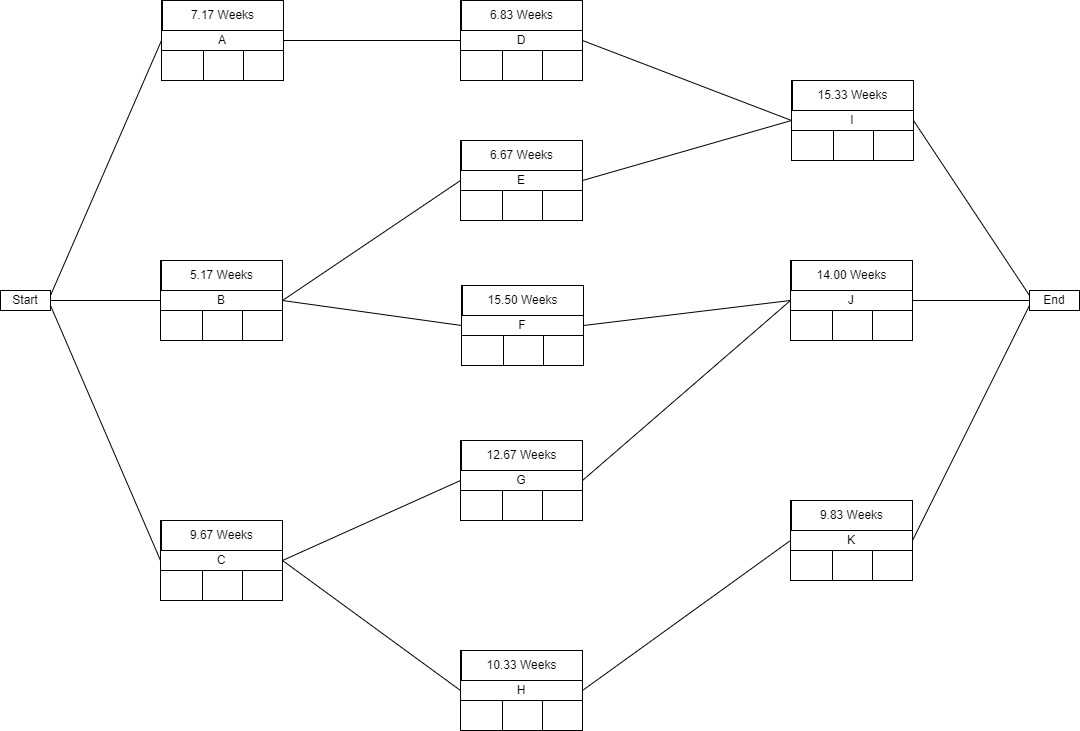
Activity G:

Activity H:

Activity I:

Activity J:

Activity K:

1. 
2. The critical path is C -> G -> J because it has the longest duration of any path. The expected duration of the project is 36.34 weeks, which is the duration of the critical path.
3. Activity A:

Activity B:

Activity C:

Activity D:

Activity E:

Activity F:

Activity G:

Activity H:

Activity I:

Activity J:

Activity K:

1. Activity A:

Activity B:

Activity C:

Activity D:

Activity E:

Activity F:

Activity G:

Activity H:

Activity I:

Activity J:

Activity K: