1. Given the information in the following table:

|  |  |  |
| --- | --- | --- |
| **Activity** | **Duration** | **Predecessor** |
| A | 4 | None |
| B | 6 | A |
| C | 4 | A |
| D | 2 | C |
| E | 4 | B |
| F | 5 | B, D |
| G | 3 | C |
| H | 4 | F, G |
| I | 2 | E, H |

1. Construct the AON network diagram
2. Find each activity’s ES, EF, LS and LS
3. Identify all paths. Which path is the critical path?
4. Calculate the slack for each activity.
5. How long will it take to complete the project?
6. In the following table task durations are given in weeks. Use the three point to find:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | **Predecessor** | **Optimistic** | **Normal** | **Pessimistic** |
| A | None | 2 | 4 | 6 |
| B | None | 3 | 5 | 9 |
| C | A | 4 | 5 | 7 |
| D | A | 4 | 6 | 10 |
| E | B,C | 4 | 5 | 7 |
| F | D | 3 | 4 | 8 |
| G | E | 3 | 5 | 8 |

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