**Part 2 – Project Scheduling**

For the examination invigilation, the preparation of the venue, question paper logistics and answer script logistics require a complex set of tasks, which they are definitely not comfortable sharing with you. A list of these tasks (where the task names are replaced by the symbols) and their dependencies are given to you as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Duration (days) | Predecessor | Cost (BDT) |
| A | 2 |  | 10000 |
| B | 4 |  | 11000 |
| C | 3 | A | 15000 |
| D | 5 | B | 6000 |
| E | 6 | C | 7000 |
| F | 7 | C | 4000 |
| G | 8 | D | 8000 |
| H | 4 | E, F | 4500 |
| I | 5 | F, G | 700 |
| J | 6 | I | 5600 |
| K | 9 | H | 4500 |
| L | 4 | H | 1200 |
| M | 3 | K, L, J | 8000 |

**Q6. Find out the Critical Path/s. (6 marks)**

The total indirect costs for the whole of the normal project timeline is 31,000 BDT. Now, the requirement is to finish the project by 25 days. No more delays will be allowed. In fact, this is a case where you MUST have to finish by 25 days. You contact your contractors and they give you the following crashed cost and activity schedule:

|  |  |  |
| --- | --- | --- |
| Tasks | Crashed Duration | Cost |
| A | 2 | 10000 |
| B | 4 | 11000 |
| C | 3 | 15000 |
| D | 4 | 20000 |
| E | 4 | 15000 |
| F | 4 | 10000 |
| G | 6 | 10000 |
| H | 3 | 9000 |
| I | 3 | 2000 |
| J | 4 | 8000 |
| K | 8 | 6250 |
| L | 2 | 2800 |
| M | 2 | 9000 |

**Q7. How much will be the total cost if you plan to finish by 25 days? (8 marks)**