|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity** | **Preceding Activities** | **Normal Time (weeks)** | **Crash Time (weeks)** | **Expediting (Crashing) cost per week ($)** |
| A | - | 9 | 8 | 3,000 |
| B | A | 19 | 15 | 1,800 |
| C | A | 15 | 14 | 2,000 |
| D | B,C | 5 | 5 | - |
| E | C | 10 | 6 | 4,000 |
| F | D,E | 2 | 1 | 1,000 |

Question 1.

A restaurant chain is building a new restaurant. The following are activities that need to be completed before the restaurant is opened.

**What is the completion time for the project?**

Project Completion Time = ## weeks

**How many weeks should the project completion time be reduced?**

Project Reduction = ## weeks

**What is the project duration if all activities are crashed to their minimum?**

Project Duration = ## weeks

Refer to pages 197-201 for guidance – Those are attached.

Question 2.

(Refer to the project shown in Figure 5-10 (see page 156). The facility used by activities “c” and “d” is scarce. Given the following priority rules, which activity (“c” or “d”) would you assign the facility first?)

Refer to pages 217-218 for guidance - Attached

Given the following priority rules, which activity (“c” or “d”) would you assign the facility first?

**Minimum slack first:** Activity c – or – d

**Most followers (successors) :** Activity c – or – d

**Most critical followers:** Activity c – or – d

**Shortest task duration first:** Activity c – or – d

**As late as possible:** Activity c – or – d