**PROJECT MANAGEMENT**

**Learning Outcome 2: ACTIVITY 4**

**PAIRS ACTIVITY**

**Football stadium**

A football stadium is being redeveloped and the project has been broken down into the network of tasks as shown in Table 1.

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Description** | **Duration(working days)** | **Predecessor/s** |
| **A** | Site Clearance | 4 | - |
| **B** | Foundations  | 6 | A |
| **C** | Lower Tier  | 15 | B |
| **D** | Upper Tier | 20 | C |
| **E** | Staircases | 6 | D |
| **F** | Executive Boxes | 5 | D |
| **G** | Office suite | 3 | F |
| **H** | Banqueting suite | 15 | C |
| **I** | TV Studio | 9 | H |
| **J** | Completion work | 12 | E,G,I |

***Table 1 – Schedule of tasks***

During a project meeting, the project manager was concerned by the fact that the project was behind schedule. All the parties involved were asked to come up with options for accelerating the schedule. These are shown in Table 2.

|  |  |
| --- | --- |
| **Option** | **Description** |
| **1** | By working longer days, 3 days could be saved on the Foundations (Task B). |
| **2** | By using extra construction staff, up to 2 days could be saved on the Executive Boxes (Task F). |
| **3** | Simplifying the lighting in the Banqueting suite would save 5 days from Task H |
| **4** | Simplifying the TV studio specification would reduce Task I by 4 days |
| **5** | Hiring an additional painting contractor could save 5 days on completion work (Task J) |

***Table 2 – Options***

**Questions**

FIRST PART

 **(a)** Draft a simple network diagram chart using the information from Table 1 (only) to show the initial schedule.

**(b)** Identify the tasks on the critical path and calculate the planned duration of the project in weeks. Assume there are five working days in each week.

SECOND PART

**(c)** Taking into account the fact that the project needs to recover lost time, advise which of the options from Table 2 should be accepted and which of the options rejected.