**Project Management and Research Methodology**

**Activity Sequencing Tutorial**

**Q1.** Draw a network diagram from the Task/Dependency table given below.

|  |  |
| --- | --- |
| Task ID | Predecessor |
| A |  |
| B |  |
| C | A |
| D | A |
| E | B |
| F | D, C, E |
| G | D |
| H | G |

**Q2**. Construct a dependency table for the project “Decorate Living Room”, which is made up of the following activities:

Buy paint, rollers and brushes

Decide on colour scheme

Remove furniture from room

Prepare walls and skirting board

Put down protective sheets

Paint skirting

Paint walls

Replace furniture

Draw a network diagram from the “Decorate Living Room” dependency table.

**Q3.** Project description: A is the first activity in the project. B starts when A is complete. C follows B. D starts the same time as C. E follows all other jobs.

Construct a dependency table and then draw the network diagram for the above project.

**Q4**. Construct a dependency table for the project “Tea and toast”, which is made up of the following activities:

|  |  |  |
| --- | --- | --- |
| Add milk to cup | Toast the bread | Boil kettle |
| Put tea bag in cup | Fill kettle with water | Get butter from fridge |
| Butter the toast | Put bread in toaster | Add water to cup |

Draw a network diagram from the “Tea and toast” dependency table.

Estimate times for each task (in seconds). Use these times to construct a Gantt chart for the “Tea and toast” project.

**Q5.** Draw a network diagram and Gantt chart from the Activity table given below.

|  |  |  |
| --- | --- | --- |
| **Activity** | **Predecessor** | **Duration** |
| A |  | 2 days |
| B | A | 2 days |
| C | A | 1 day |
| D |  | 2 days |
| E | D | 1 day |
| F | B | 2 days |
| G | C | 2 days |
| H | D | 3 days |
| I | E, H | 2 day |