



Uva Wellassa University, Sri Lanka

Btech./B.Sc. Degree Programmes

End Semester Examination

January -2009

ENG 314-1 Project Formulation and Management

Answer One question from Part I and All the questions in Part II.

Time: One (01) hour

Part I

Q1.

1. What is a Project? What makes a project differ from a program? Give four example projects. (10)
2. Who is a Project manager? What are his responsibilities? (10)
3. Using graphs and diagrams briefly explain "Project Life Cycle". (5)

Q2. Write short notes on Five from the list given below. (5 each)

1. Resource management
2. Four phases of a project
3. Risk management
4. Budgeting
5. Project success
6. Net present value (NPV)
7. Decision matrix

Part II

For the questions Q3, Q4, and Q5 use table given below.

| Activity | Predecessor | To | Tm | Tp | Duration in weeks | | Cost | | Crashing Potential |
|----------|-------------|----|----|----|-------------------|-------|--------|-------|--------------------|
| | | | | | Normal | Crash | Normal | Crash | |
| A | - | 4 | 5 | 6 | 5 | 4 | 4000 | 7000 | 1 |
| B | - | 2 | 3 | 5 | 3 | 3 | 3000 | 4000 | X |
| C | A | 6 | 8 | 10 | 8 | 6 | 2000 | 2000 | 2 |
| D | B | 2 | 4 | 5 | 4 | 3 | 2000 | 5000 | 1 |
| E | C,D | 1 | 2 | 3 | 2 | 1 | 2000 | 4000 | 1 |
| F | C | 3 | 4 | 6 | 4 | 4 | 1000 | 1000 | X |
| G | C,D | 5 | 7 | 9 | 7 | 6 | 3000 | 8000 | 1 |
| H | F,E | 5 | 6 | 7 | 6 | 5 | 3000 | 5000 | 1 |

Q3. Draw the network diagram using Activity-On-Arrow method and find the critical path. Illustrate the method clearly. (30)

Q4. Find the probability of completing the project within 25 days. (15)

Q5. Crash the project to 21 days. Show the steps clearly. (30)