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18ME745

**Seventh Semester B.E. Degree Examination, July/August 2022**  
**Project Management**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. Use of Standard normal cumulative probability table is permitted.*

**Module-1**

- 1 a. Define project and project management. List out the characteristics of project. (10 Marks)  
b. Describe the General Project Life Cycle with sketch. (10 Marks)

**OR**

- 2 a. Define strategic planning process and explain steps involved in strategic planning. (10 Marks)  
b. Explain various methods included in selecting the projects. (10 Marks)

**Module-2**

- 3 a. What is work breakdown structure? Explain the different formats of WBS. (10 Marks)  
b. Write short notes on:  
(i) Uncertainty in project schedule  
(ii) Gantt chart (10 Marks)

**OR**

- 4 a. Explain the project scheduling process and its purpose. (10 Marks)  
b. Explain the stages in project planning. (10 Marks)

**Module-3**

- 5 a. What do you mean by cost estimation and explain different types of cost? (10 Marks)  
b. List and explain the abilities needed when resourcing projects. (10 Marks)

**OR**

- 6 a. What is the purpose of Risk Management and explain two types of Risk analysis. (10 Marks)  
b. What do you understand by project quality tools and explain kickoff projects. (10 Marks)

**Module-4**

- 7 a. Explain different types of contracts. (10 Marks)  
b. How does project partnering can be carried in performing project? (10 Marks)

**OR**

- 8 a. Explain how project can be terminated early. (10 Marks)  
b. What is Knowledge Management? How does Knowledge Management help in Project Management? (10 Marks)

**Module-5**

- 9 a. Explain errors in drawing network. (06 Marks)  
 b. A project has the following time schedule:

Activity	Time (weeks)
1-2	4
1-3	1
2-4	1
3-4	1
3-5	6
4-9	5
5-6	4
5-7	8
6-8	1
7-8	2
8-9	1
8-10	8
9-10	7
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- (i) Draw the network diagram and find critical path.  
 (ii) Compute Earliest start and finish time, latest start and finish time, total float for each activity.  
 (iii) Determine the project duration. (14 Marks)

**OR**

- 10 a. Explain the basic steps in PERT/CPM techniques. (06 Marks)  
 b. Assuming that the expected times are normally distributed, find the probability of meeting the scheduled date of 30 days as given for the network. Also find the date on which the project manager can complete the project with probability of 0.90.

Activity	Time Estimates (Days)		
	Optimistic	Most likely	Pessimistic
1-2	2	5	14
1-3	9	12	15
2-4	5	14	17
3-4	2	5	8
4-5	6	6	12
3-5	8	17	20

(14 Marks)

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