USN | | | | | | | | | | **21ME651**

Sixth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
Project Management

Time: 3 hrs.   Max. Marks: 100

Note : *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. What is a Project? Explain the types of Projects. **(10 Marks)**
   b. Explain the various key roles in the Project. **(10 Marks)**

OR

2 a. Explain the Strategic analysis methods in Project Management. **(10 Marks)**
   b. Briefly explain the methods of selecting Projects. **(10 Marks)**

Module-2

3 a. Prepare a project scope checklist and explain any three of them in detail. **(10 Marks)**
   b. Explain the work breakdown structure of a Project. **(10 Marks)**

OR

4 a. What is a Project schedule? Explain the purpose of a Project schedule. **(10 Marks)**
   b. Explain various uncertainties in Project schedule. **(10 Marks)**

Module-3

5 a. Explain Cost budgeting and Cost control in Project Management. **(10 Marks)**
   b. Explain various team composition issues in Project Management. **(10 Marks)**

OR

6 a. Explain qualitative and quantitative risk analysis in Project Management. **(10 Marks)**
   b. Explain any four project quality tools used to improve the quality of the Project. **(10 Marks)**

Module-4

7 a. Explain various contract types in Project Management. **(10 Marks)**
   b. What is Project Collaboration? Explain the key steps in Project collaboration. **(10 Marks)**

OR

8 a. What is the purpose of balance scorecard and prospective of the balance scorecard in Project Management. **(10 Marks)**
   b. Explain the strategies required for finishing the project on time. **(10 Marks)**

Module-5

9 a. Explain AON and AOA diagrams with neat diagrams. **(10 Marks)**

b. A project consists of the following job's whose time estimates are given below :

Job's	1-2	1-3	1-4	2-6	3-5	3-7	4-5	6-8	7-8	5-9	8-9
Time (Days)	2	2	1	4	8	5	3	1	4	5	3

i) Draw the network diagram representing the project.

ii) Find Float for each activity.

iii) Find the critical path and total project duration. **(10 Marks)**

OR

10 a. Mention the rules for Network construction and Fulkerson's rule for numbering the events. **(10 Marks)**

b. Consider the following project having the time estimate in day's :

Activity	A	B	C	D	E	F	G
t_o	3	2	2	2	1	4	1
t_m	6	5	4	3	3	6	5
t_p	9	8	6	10	11	8	15
Predecessor	-	-	A	B	B	C, D	E

i) Draw the Network diagram for the project.

ii) Identify all paths through it and write the critical path.

iii) Determine the expected project duration. **(10 Marks)**

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