CBCS SCHEME

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BME654A

Sixth Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Project Management

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

			M	L	C
		Module – 1			
Q.1	a.	Define Project. Explicate in detail of project characteristics and types of project.	10	L2	CO1
	b.	Explain the functionality of project tools and roles in project management.	10	L2	CO1
		OR			
Q.2	a.	Elucidate project selection and potential project identifying in project management.	10	L2	CO1
	b.	Illustrate strategic planning process. Demonstrate portfolio alignment in a given project.	10	L2	CO1
		Module – 2			
Q.3	a.	Explain Project scope check list and project priorities in project planning.	10	L2	CO2
	b.	Demonstrate in detail of the Work Breakdown Structure (WBS) of a project.	10	L2	CO2
		OR			
Q.4	a.	What is the schedule of project? Explain how the project schedules are limited and created.	10	L2	CO2
	b.	Expound different uncertainties in project schedule.	10	L2	CO2
		Module – 3			
Q.5	a.	Illustrate the abilities needed and resource estimation needs while resourcing projects.	10	L2	CO3
	b.	Demonstrate the cost planning and cost budgeting in project management	10	L2	CO3
		OR			
Q.6	a.	Explicate qualitative and quantitative risk analysis in project management.	10	L2	CO3
	b.	Demonstrate the following in detail : i) Project quality tools ii) Kicks off projects	10	L2	CO3
		Module – 4			
Q.7	a.	Explain project supply chain management with flow diagram and illustrate the components of supply chain management.	10	L2	CO4
	b.	Explicate different types of contract in the project management.	10	L2	CO4
		OR			
Q.8	a.	Expound the balanced score card approach in detail.	10	L2	CO4
	b.	Elucidate the strategies required for finishing the project on time.	10	L2	CO4

Module – 5

Q.9	a.	Demonstrate the Fulkerson's rule for numbering the events in the network diagram.	10	L2	CO5
	b.	A project consists of the following job's whose time estimates are given below :	10	L2	CO5

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

OR

Q.10	a.	Explain AON and AOA diagrams with sketch in detail.	10	L2	CO5
	b.	Consider the following project having the time estimate in days :	10	L2	CO5

Activity	A	B	C	D	E	F	G
t_0	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

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