



Roll no.....

End Semester Examination, December 2024
MBA Semester III
PROJECT MANAGEMENT (MCSP766)

Time: 2.5 hrs.

Max Marks: **50**

Note: ***All Questions are compulsory.** Marks are indicated against each question.*

PART-A

Q.1 Attempt any 5 questions:

2X5=10 marks

- (a) Define project life cycle and describe its phases. [CO-1] [L-1] 2
- (b) What is the significance of a project charter? [CO-1] [L-1] 2
- (c) Explain the classification of projects with examples. [CO-1] [L-1] 2
- (d) What are the key elements of cost analysis in project management? [CO-2] [L-1] 2
- (e) Describe the concept of a Gantt chart and its use in project scheduling. [CO-3] [L-2] 2
- (f) Briefly outline the process of conducting a project audit. [CO-4] [L-1] 2
- (g) What are preventive control techniques in project management? [CO-3] [L-2] 2

PART-B

Q.2 A project involves the identification of investment opportunities and initial project initiation. Explain the steps involved in conducting a comprehensive market and demand analysis, including economic and social cost-benefit analysis. [CO-2] [L-4] **10 marks**

OR

Explain the process of financial analysis for project management, covering aspects such as project cash flow, ROI, and replacement cost. Discuss the importance of project risk analysis. [CO-2] [L-4] **10 marks**

Q.3 A project manager is scheduling a project using CPM. The following activities are involved:

Activity Predecessor(s) Duration (days)

A	-	4
B	A	6
C	A	5
D	B, C	7
E	D	3

- (a) Draw the network diagram.
- (b) Calculate the critical path and project duration.

[CO-3] [L-4] 10 marks

OR

Q.3 A project manager is planning a project and has identified the following activities, their predecessors, and durations:

Activity	Predecessor(s)	Duration (days)
A	-	4
B	A	6
C	A	5
D	B	3
E	C	4
F	D, E	7
G	F	2

- (a) Draw the network diagram for the project.
 (b) Identify the critical path and calculate the total project duration.
 (c) Determine the slack time for each activity. [CO-3] [L-4] **10 marks**

Q.4 . Describe the role of project management structures, focusing on the matrix form. How do these structures contribute to resource planning? [CO-3] [L-4] **10 marks**

OR

Explain project scheduling and the control process. Discuss how preventive control techniques are utilized to maintain project schedules. [CO-3] [L-4] **10 marks**

Q.5 A project manager is analyzing a project using PERT. Given the data below, calculate the expected project completion time and the probability of completing the project within 20 days:

Activity	Predecessor(s)	Optimistic (days)	Most Likely (days)	Pessimistic (days)
A	-	3	5	7
B	A	2	4	6
C	A	4	5	6
D	B, C	3	5	9

- (a) Compute and evaluate the expected duration and variance for each activity.
 (b) Calculate the probability of project completion within 20 days. [CO-3] [L-5] **10 marks**

OR

Q.5 A project involves the following activities. Use PERT analysis to find the expected completion time:

Activity	Predecessor(s)	Optimistic (days)	Most Likely (days)	Pessimistic (days)
A	-	2	3	5
B	A	4	6	10
C	A	1	2	3
D	B, C	5	7	11
E	D	2	3	5

- (a) Calculate the expected time and variance for each activity.
 (b) Discuss and evaluate how PERT can aid in identifying project risks and uncertainties. [CO-3] [L-5] **10 marks**

