AU CHENNAI 600 025

ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. / B. Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, APR/MAY 2025
Department of Industrial Engineering
VIII Semester
IE5012 - PROJECT MANAGEMENT
(Regulation 2019)

Time: 3hrs   Max.Marks: 100

CO 1	Evaluate and select the most desirable projects.
CO 2	Apply appropriate approaches to plan a new project.
CO 3	Apply appropriate methodologies to develop a project schedule.
CO 4	Identify important risks facing a new project.
CO 5	Understanding the project management skills in IT industries.

BL – Bloom's Taxonomy Levels
(L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing, L5 - Evaluating, L6 - Creating)

PART- A (10 x 2 = 20 Marks)
(Answer all Questions)

Q. No	Questions	Marks	CO	BL
1	Identify the Project Management constraints.	2	CO1	L2
2	Differentiate between a project and a program.	2	CO1	L2
3	Define work package.	2	CO2	L1
4	State the types of task relationships.	2	CO2	L1
5	What is the difference between monitoring and controlling?	2	CO3	L2
6	Mention two consequences of poor resource management	2	CO3	L1
7	What is Risk Management?	2	CO4	L1
8	State the importance of documenting in project closure.	2	CO4	L1
9	What is meant by the discipline of project management?	2	CO5	L1
10	State the significance of aligning IT projects with business objectives.	2	CO5	L2

PART- B (5 x 13 = 65 Marks)
(Restrict to a maximum of 2 subdivisions)

Q. No	Questions	Marks	CO	BL
11 (a)	i) Describe the different types of feasibility analysis considered during project evaluation.	8	CO1	L2
	ii) Explain the various steps involved in conducting a feasibility study for a project.	5		
OR				
11 (b)	Draw the structure of the body of knowledge in Project Management and Briefly explain them.	13	CO1	L2
12 (a)	Briefly explain the various methods used for estimating project time and cost with relevant examples.	13	CO2	L3
OR				
12 (b)	Discuss the following resource management techniques in detail.		CO2	L3
	i) Resource Aggregation, Smoothing and Levelling	8		
	ii) Prioritization and Critical Path Method (CPM)	5		

13 (a)	A project schedule has the following characteristics:	13	CO3	L4
	<table><tr><td>Activity</td><td>Duration</td></tr><tr><td>1-2</td><td>4</td></tr><tr><td>1-3</td><td>1</td></tr><tr><td>2-4</td><td>1</td></tr><tr><td>3-4</td><td>1</td></tr><tr><td>3-5</td><td>6</td></tr><tr><td>4-9</td><td>5</td></tr><tr><td>5-6</td><td>4</td></tr><tr><td>5-7</td><td>8</td></tr><tr><td>6-8</td><td>1</td></tr><tr><td>7-8</td><td>2</td></tr><tr><td>8-10</td><td>5</td></tr><tr><td>9-10</td><td>7</td></tr></table> i) Compute the network (5) ii) Compute EST and LFT for each event (3) iii) Find the critical path (5)			

	OR			
13 (b)	i) Elaborate the major resources of the project. ii) Discuss the benefits of project monitoring and control	8 5	CO3	L4
14 (a)	i) Explain the risk management process with neat flow chart. ii) How does risk management play a role in the project closure process?	8 5	CO4	L3

	OR			
14 (b)	i) Explain the various types of project closure in detail. ii) Write the procedures involved in conducting a process project audit.	8 5	CO4	L3
15 (a)	i) Explain the process of software project selection and initiation, emphasizing key decision-making criteria. ii) Discuss the challenges in managing modern information system projects.	8 5	CO5	L4

	OR			
15 (b)	Discuss the critical success factors that influence the success of IT projects.	13	CO5	L4

PART- C (1 x 15 = 15 Marks)
(Q.No.16 is compulsory)

Q. No	Questions	Marks	CO	BL
16.	Draft a Work Break Down Structure with a detailed explanation of project milestones for a Construction Project	15	CO2	L5