



M.TECH DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Second Semester

MASTERS OF TECHNOLOGY MANAGEMENT

P18TMT2106: Project Management

COURSE OUTCOMES

CO1: Explain the knowledge areas of project management.

CO2: Apply tools and techniques of project management to monitor and control projects.

CO3: Construct a project schedule and estimate cost using MS Project software.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Project characteristics are (Pick the odd one out) CO1 [K₁]
 - a) Unique b) Set of Activities
 - c) Permanent d) Objectives and goals

2. Which of the following is not an example of a project? CO1 [K₁]
 - a) Buying clothes from the market on a special sale. b) Planning for your friend's wedding.
 - c) Building a bridge across a river. d) Cleaning the office building every day

3. Mary is a project manager at a consulting company. The company regularly builds teams to create products for clients. When the product is delivered, the team is dissolved and assigned to other projects. What kind of organization is she working for? CO1 [K₁]
 - a) Weak matrix b) Projectized
 - c) Functional d) Strong Matrix

4. Choose the correct option in matching List I and List II CO1 [K₁]

List I	List II
A. WBS	i. PDCA
B. Quality	ii. Cost Variance
C. Scope	iii. Work packages
D. EVM	iv. Constraint

- | | | |
|---|-----|-------------------|
| 14. What is slack time? | CO2 | [K ₁] |
| 15. What is fast tracking in project activities? | CO2 | [K ₁] |
| 16. Show how is a dummy activity, used in network diagram? | CO2 | [K ₁] |
| 17. What is project quality management? | CO2 | [K ₁] |
| 18. Outline project communication management. | CO2 | [K ₁] |
| 19. Identify the positive risk in projects? | CO2 | [K ₂] |
| 20. Name any two popularly known project management software. | CO2 | [K ₁] |

PART C (6 x 5 = 30 Marks)

- | | | |
|---|-----|-------------------|
| 21. List any five organizational process assets | CO1 | [K ₁] |
| 22. Explain the projectized organizational structure | CO1 | [K ₂] |
| 23. Distinguish fast tracking and crashing of project with an illustration | CO2 | [K ₄] |
| 24. Explain the cause-and-effect diagram with an application project quality management | CO2 | [K ₂] |
| 25. What are the rules to be followed while constructing a network diagram? | CO2 | [K ₁] |
| 26. What are features of MS project software? | CO3 | [K ₁] |

**Answer any FOUR Questions
PART D (4 x 10 = 40 Marks)**

- | | | |
|---|-----|-------------------|
| 27. You are appointed as the project manager for an export order of 1000 trucks to be shipped in 6 months period. Construct a work-breakdown structure for the event? Mention the objectives and deliverables of the project. | CO1 | [K ₅] |
| 28. Propose a project charter for implementing an ERP system in your company. | CO1 | [K ₆] |
| 29. You are a project manager of a multi-storied construction project. The project duration is estimated at 24 months. Currently the project is at the end of 12 months, and you have noticed that 20 percent of the work has not been completed. As a manager you are worried about the progress and decided that this | CO2 | [K ₃] |

should not continue for the remaining part of the project. You decided to find the reasons for the delay by meeting your team and correcting it. Select an appropriate method or tool to identify the possible causes for the delay and discuss.

30. For the given data, interpret the performance of the project on the basis of time and cost at the end of the second month. Also determine the SPI and CPI of the project at the end of second month.

CO2 [K₅]

Month	1	2	3	4
Planned Value	₹ 11,10,000	₹ 6,00,000	₹ 25,00,000	₹ 8,00,000
Earned Value	₹ 10,00,000	₹ 7,50,000		
Actual Cost	₹ 12,50,000	₹ 5,00,000		

31. Activities for a construction project is given (in days),

CO2 [K₆]

Activity	A	B	C	D	E	F	G	H	I
Predecessor	-	-	A	A	C	D	B	E, F	G
Time Most likely	2	1	0	1	3	3	1	5	3
Time Optimistic	5	10	0	4	10	5	2	10	6
Time Pessimistic	14	12	6	7	15	7	3	15	9

- Construct a network diagram.
- Identify the critical path.
- Determine project duration.
