R22 Regulation *Subject code: 4P8AF*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VIII Semester Regular Examinations, May 2026

CONSTRUCTION PROJECT PLANNING & MANAGEMENT

(CE)

Maximum Marks: 60 Date:06.05.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X1M=10 Marks)		Marks	CO	BTL
1.a)	List the four basic functions of management.	1	1	1
b)	Define organizational structure.	1	1	1
c)	Define critical path.	1	2	1
d)	What is cost optimization?	1	2	1
e)	What is budgetary control?	1	3	1
f)	Define resource allocation.	1	3	1
g)	What is earnest money deposit (EMD)?	1	4	1
h)	What is an M-book?	1	4	1
i)	What is Workmen's Compensation Act?	1	5	2
j)	What is MIS?	1	5	1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
2	a) Apply the functions of management to a construction project example. b) Analyze different organizational structures used in construction companies.	5 5	1	3 4
	OR			
3	a) Compare classical and modern management theories in construction context. b) Apply decision-making techniques to a site management problem.	5 5	1	4 3
4	a) Analyze differences between CPM and PERT techniques. b) Analyze the stages of a construction project with examples.	5 5	2	4 4
	OR			
5	The following activities are involved in a project:		2	

Activity	Predecessor	Duration (days)
A	—	2
B	A	4
C	A	3

	<table><tr><td>D</td><td>B</td><td>5</td></tr><tr><td>E</td><td>C</td><td>2</td></tr><tr><td>F</td><td>D, E</td><td>3</td></tr></table> a) Draw the network diagram and find: 1. Earliest start and finish times 2. Latest start and finish times b) 1. Total float 2. Critical path 3. Project duration	5 5		3 3
6	a) Evaluate different types of construction equipment for a project. b) Analyze resource allocation methods in project management.	5 5	3	5 4
	OR			
7	a) Analyze the factors affecting labour productivity in construction projects. Evaluate methods to improve productivity on site. b) Differentiate between resource allocation and resource levelling. Evaluate which technique is more suitable in resource-constrained projects.	5 5	3	4 4
8	a) Apply arbitration procedures in resolving construction disputes. b) Explain the concept of muster roll and store management in construction	5 5	4	3 2
	OR			
9	a) Explain different types of deposits made by a contractor. b) Explain the purpose and format of a Measurement Book (M-Book).	5 5	4	2 2
10	a) Analyze the role of MIS in construction project management. b) Analyze labour laws related to wages and bonus.	5 5	5	4 4
	OR			
11	a) Evaluate the provisions of the Workmen's Compensation Act. b) Apply safety regulations to prevent construction accidents.	5 5	5	5 3