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**Gandhi Institute of Engineering and Technology University, Odisha, Gunupur  
(GIET University)**



M. Tech. (Third Semester - Regular) Examinations, December – 2025  
**24MSEPE23001 – Project Planning and Construction Management  
(SE)**

Time: 2 hrs

Maximum: 60 Marks

**Answer ALL questions  
(The figures in the right hand margin indicate marks)**

**PART – A****(2 x 5 = 10 Marks)**

Q.1. Answer <i>ALL</i> questions	CO #	Blooms Level
a. Define construction planning and list any two objectives	CO1	K1
b. What is a work package in project planning?	CO2	K2
c. State any two advantages of proper scheduling.	CO3	K1
d. What is cost overrun? Give two reasons.	CO4	K2
e. Define labour productivity and mention two influencing factors.	CO5	K1

**PART – B****(10 x 5 = 50 Marks)**Answer *ALL* the questions

	Marks	CO #	Blooms Level
2. a. Explain the basic concepts involved in developing a construction plan.	5	CO1	K2
b. Discuss the factors influencing the choice of technology and construction methods.	5	CO1	K2
(OR)			
c. Explain the concept of precedence relationships among activities with examples.	5	CO1	K2
d. Illustrate how activity durations are estimated in project planning.	5	CO1	K3
3.a. Develop a simple construction plan using work breakdown structure and precedence logic.	5	CO2	K4
b. Evaluate the significance of resource estimation in effective construction project management.	5	CO2	K4

(OR)

c. Explain the concept of construction management and its major functions.	5	CO2	K2
d. Describe the types of project organizations commonly adopted in construction.	5	CO2	K2
4.a. Analyze various methods used for economic decision-making in construction projects.	5	CO3	K4

b.	Evaluate the impact of inflation on project cash flow and public project evaluation.	5	CO3	K5
(OR)				
c.	Explain the bidding process in detail with reference to public and private projects.	5	CO3	K2
d.	Compare the CPWD contract conditions and FIDIC form of contract agreement	5	CO3	K4
5.a.	Describe the different classes of labour and factors affecting labour productivity.	5	CO4	K2
b.	Discuss the classification and selection criteria of construction equipment.	5	CO4	K2
(OR)				
c.	Explain the key functions of material management in a construction project.	5	CO4	K2
d.	Discuss inventory management techniques used in construction materials control.	5	CO4	K2
6.a.	Evaluate the cost of quality and its implications in construction projects.	5	CO5	K5
b.	Explain the contributions of quality gurus such as Deming, Juran, and Crosby.	5	CO5	K2
(OR)				
c.	Propose an effective Safety and Health Management System (SHMS) for a large-scale construction project	5	CO5	K6
d.	Discuss accident causation theories and the role of safety personnel in construction.	5	CO5	K2

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