QP Code: S253A033	Reg. No	AY 23

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

B. Tech (Third Semester – Regular & Supplementary) Examinations, November 2025

23BCVPC23001 – Construction Technology

(Civil)

Time: 3 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 ***ALL*** questions

	Question	CO #	Blooms Level
a.	Define construction technology.	CO1	K1
b.	What is meant by prefabrication in construction?	CO2	K1
c.	Mention two advantages of mechanization in construction.	CO2	K2
d.	Define curing of concrete.	CO1	K1
e.	Mention any two types of foundations commonly used in building construction.	CO1	K1

PART – B (10 x 5 = 50 Marks)

Answer ***ALL*** the questions

	Question	Marks	CO #	Blooms Level
2. a.	Explain the scope and importance of construction technology in civil engineering.	5	CO1	K3
b.	Describe the different stages involved in a building construction project.	5	CO1	K2
	(OR)			
c.	Discuss the factors influencing the selection of construction materials.	5	CO1	K3
d.	Explain the functions and requirements of good foundations.	5	CO1	K3
3.a.	Compare shallow and deep foundations with suitable examples.	5	CO1	K2
b.	Describe the step-by-step procedure of raft foundation construction.	5	CO2	K3
	(OR)			
c.	Explain the process of pile driving and types of piles used.	5	CO2	K3
d.	Discuss the importance of soil exploration before starting a construction project.	5	CO1	K3
4.a.	Describe the different methods of damp proofing in buildings.	5	CO2	K3
b.	Discuss the different types of formwork and their suitability.	5	CO3	K3
	(OR)			
c.	Discuss the properties and advantages of high-performance concrete.	5	CO2	K2
d.	Discuss the importance and types of scaffolding used in construction.	5	CO3	K3
5.a.	Discuss the role of mechanization in improving construction productivity.	5	CO2	K4
b.	Explain the working and applications of tower cranes in construction.	5	CO3	K4
	(OR)			
c.	Describe the use and maintenance of earth-moving equipment.	5	CO3	K3
d.	Explain the methods of waterproofing in building structures.	5	CO3	K2
6.a.	Discuss the causes and prevention of construction failures.	5	CO3	K3
b.	Discuss the types and applications of formwork materials such as steel, timber, and aluminium.	5	CO4	K2
	(OR)			
c.	Explain the process of prestressing in concrete and its advantages.	5	CO2	K2
d.	Describe the construction and importance of expansion and contraction joints.	5	CO4	K3

--- End of Paper ---