



GIET UNIVERSITY, GUNUPUR - 765022
B. Tech (Third Semester Regular) Examinations, December - 2023
22BCVPC23002 - Construction Technology
(Civil)

Time: 3 hrs

Maximum: 70 Marks

(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. List construction activities required for a building project.	CO1	K1
b. Explain the necessity of quality and safety in construction.	CO1	K2
c. Differentiate between shallow and deep foundations.	CO2	K2
d. List all the equipment required for excavation work.	CO3	K1
e. List all daily maintenance needed for an official building.	CO4	K2

PART - B**(15 x 4 = 60 Marks)**

<u>Answer <i>ALL</i> questions</u>	Marks	CO #	Blooms Level
2. a. Describe the advantages of mechanized construction for the construction of G + 10 Multi Storey building.	7	CO1	K3
b. Briefly explain construction activities for a metro project.	8	CO1	K2
(OR)			
c. Define arch, beam, column, roof slab and foundation. Differentiate between sub and super structures.	7	CO1	K3
d. How to ensure quality of concreting at site for roof casting ?	8	CO1	K3
3.a. How to classify soil? Differentiate between shallow and deep foundation.	7	CO2	K2
b. Describe different types of roofs and roofing materials.	8	CO2	K3
(OR)			
c. Describe the various types of admixtures to be used in concreting.	7	CO2	K2
d. Draw neat sketch of h pile, box pile, timber piles. What are the various causes of failure of foundation.	8	CO2	K3
4.a. List and explain equipment required for transporting construction materials .	7	CO3	K3
b. Write short notes on construction estimation and construction activities	8	CO3	K3
(OR)			
c. Describe the procedure of damp proofing in different location of buildings.	7	CO3	K3
d. Write short notes on ,quality of water for concrete work and Lab test for cement.	8	CO3	K3

- | | | | | |
|------|---|---|-----|----|
| 5.a. | Describe the measures to be taken for construction of buildings in earthquake zones. | 8 | CO4 | K3 |
| b. | Briefly explain assessment procedure to determine the location of defects, cause of defects and remedial measures . | 7 | CO4 | K3 |

(OR)

- | | | | | |
|----|---|---|-----|----|
| c. | Explain briefly periodic maintenance required for multi storey buildings. | 8 | CO4 | K3 |
| d. | Describe various lab tests for cement ,concrete and its importance. | 7 | CO4 | K3 |

--- End of Paper ---