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# GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR (GIET UNIVERSITY)



B. Tech (Third Semester - Regular) Examinations, November – 2024

## 23BCVPC23001 – Construction Technology

(Civil Engineering)

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

	CO #	Blooms Level
a. What does M20 grade implies?	CO1	K1
b. What are the documents required by engineers to carry out the construction work	CO1	K1
c. List the various types of mechanized equipment used in earthmoving operations.	CO3	K2
d. What is difference between preventive maintenance and corrective maintenance?	CO5	K2
e. Enlist the common defects occur in the buildings.	CO5	K1

#### PART – B

(10 x 5 = 50 Marks)

Answer **ALL** the questions

	Marks	CO #	Blooms Level
2. a. Write short notes on the infrastructure development for the construction of a university buildings.	5	CO1	K2
b. Explain the advantages and disadvantages of Concrete.	5	CO2	K2
(OR)			
c. What do you mean by Pile? Explain its uses and also Enlist various factors which affect the selection of pile type.	5	CO2	K2
d. Write short notes on NDT.	5	CO2	K1
3.a. Write short notes on Shotcrete.	5	CO2	K1
b. What is the purpose of curing? Explain any two methods of curing.	5	CO2	K2
(OR)			
c. What are different properties of fresh concrete. Explain 3 Properties in details	5	CO2	K2
d. Enlist different machinery used in construction. Describe any two in details	5	CO3	K2
4.a. Explain how concrete mixers and pumps are used together in a typical construction project. What are the key benefits of using mechanized equipment for mixing and placing concrete compared to manual methods?	5	CO3	K3
b. Describe the role of material handling systems. How do these systems help in transporting and positioning construction materials efficiently?	5	CO3	K2
(OR)			
c. What is Finishing work? Define the finishing work for wall and floor.	5	CO4	K1
d. What is the main purpose of regular building maintenance? How does preventive maintenance help in reducing repair costs in buildings?	5	CO5	K2
5.a. What are remedial measures in building maintenance, and why are they important?	5	CO5	K2
b. What are some precautionary measures that should be taken to prevent accidents in buildings? What steps should be followed immediately after an accident occurs in a building?	5	CO5	K3

(OR)

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| c. What is DPC? Explain in Details.        | 5 | CO4 | K1 |
| d. What is Plastering? Explain in details. | 5 | CO4 | K2 |
| 6.a. What is Pointing? Explain its Types.  | 5 | CO4 | K2 |
| b. Explain roof in details                 | 5 | CO4 | K2 |

(OR)

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|--|---|-----|----|
| c. Enlist the common defects occur in the buildings. What is difference between preventive maintenance and corrective maintenance? | 5 | CO5 | K2 |
| d. Write short notes on Anti-termite Treatment.  | 5 | CO5 | K1 |

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