

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



B. Tech (Sixth Semester - Regular) Examinations, April 2026 23BCVPC36003 - Estimation Costing and Professional Practice 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. Define valuation and state its purpose.	CO1	K1
b. Define depreciation and mention any two causes.	CO2	K1
c. What is market value?	CO3	K1
d. What is a lump sum contract?	CO4	K1
e. What is a unit price contract?	CO5	K1

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

	Marks	CO #	Blooms Level
2. a. Explain the double declining balance method of depreciation.	5	CO1	K1
b. Explain the quantity survey method of depreciation.	5	CO1	K1
(OR)			
c. Write the standard useful life of important building components.	5	CO1	K2
d. Explain the rental method of valuation.	5	CO1	K3
3.a. Describe the cost-based method of valuation.	5	CO2	K2
b. Explain the direct comparison method and belting method of valuation..	5	CO2	K2
(OR)			
c. Describe the sinking fund method of depreciation.	5	CO2	K4
d. Write a note on valuation report preparation and legal aspects of valuation	5	CO2	K3
4.a. Discuss percentage rate contracts and explain why they are commonly used in government projects in India.	5	CO3	K2
b. Explain Design-Bid-Build and Design-Build project delivery methods..	5	CO3	K2
(OR)			
c. Describe the tender system in construction and explain the need for competitive bidding	5	CO3	K2
d. Explain the different types of tenders such as open tender, selective tender, negotiated tender, two-stage tender, serial tender, and e-tendering.	5	CO3	K3
5.a. Describe the tender documents required for a construction project.	5	CO4	K2
b. Explain the procedure for tender preparation, submission, opening, and evaluation.	5	CO4	K2
(OR)			
c. Define Measurement Book and explain its importance, contents, and rules for recording measurements	5	CO4	K4
d. Explain muster roll, piecework agreement, and work order in construction	5	CO4	K3

administration

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| 6.a. | Explain arbitration as a dispute resolution mechanism in construction projects. | 5 | CO5 | K2 |
| b. | Describe the procedure of arbitration under the Arbitration and Conciliation Act, 1996. | 5 | CO5 | K2 |

(OR)

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| c. | Explain the main provisions of the LARR Act, 2013 relevant to construction projects. | 5 | CO5 | K2 |
| d. | Explain the BOCW Act, 1996 and the Welfare Cess Act, 1996 for construction workers. | 5 | CO5 | K3 |

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