

ANURAG Engineering College

(An Autonomous Institution)

IV B.Tech I Semester Regular/Supplementary Examinations, Dec-2024

ESTIMATING & COSTING**(CIVIL ENGINEERING)****Time: 3 Hours****Max. Marks: 75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. What are the different types of Estimate?	CO1	L1	2M
2. What are the main components of culvert?	CO1	L2	3M
3. What is bar bending Schedules?	CO2	L1	2M
4. Explain reinforcement bar bending with the help of neat sketches.	CO2	L2	3M
5. What is analysis of rates?	CO3	L1	2M
6. Discuss the importance of rate analysis.	CO3	L2	3M
7. What is the objective of specification?	CO4	L1	2M
8. What are the specifications for White lime mortar?	CO4	L2	3M
9. What is tender document?	CO5	L1	2M
10. What is contract?	CO5	L2	3M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Explain the estimate of single room building work including earthwork. Assume the required data.	CO1	L2	10M
OR			
B) Explain the estimate of C.C road work including earthwork. Assume the required data.	CO1	L2	10M
12. A) Calculate the steel quantity in RCC column. Assume the required data.	CO2	L3	10M
OR			
B) Explain the steel estimation of combined footings with an example. Assume the required data.	CO2	L2	10M
13. A) Prepare the analysis of rate for Lime Concrete in foundation with 40mm brick ballast per cu.m. Assume the required data.	CO3	L3	10M
OR			
B) Explain in detail about preparing rate analysis for bituminous road works.	CO3	L2	10M
14. A) Prepare the detailed specification of the following i) Cement concrete in foundation. ii) Plastering in cement mortar 1:6	CO4	L3	10M
OR			
B) Explain in detail the different types of estimates.	CO4	L2	10M
15. A) Compare the types of contract.	CO5	L3	10M
OR			
B) Discuss the general principles of BOT and BOOT projects.	CO5	L3	10M