

**PRAGATI ENGINEERING COLLEGE: SURAMPALEM**  
**(AUTONOMOUS)**  
**IV B.Tech II Semester Supplementary Examinations, May – 2024**  
**ESTIMATING, SPECIFICATIONS AND CONTRACTS**  
**(CE)**

Time: 3 hours

Max. Marks: 60

Question Paper Consists of **Part-A** and **Part-B**  
 Answer Any **Three** questions in **Part-A**  
 Any **One** question from **Part-B**

PART-A				
Q.No.	Question	BTL	CO	Marks
1	a) Explain in detail about the preliminary estimate. How do you prepare a preliminary estimate for (i) Building project and (ii) water supply project?	K2	CO1	[6M]
	b) Write a short note on degree of accuracy in estimating. What are the principles of units for various items of work?	K1	CO1	[6M]
2	a) Explain the importance and various steps involve in the rate analysis.	K2	CO2	[6M]
	b) Describe the rate analysis for the (i) 12 mm cement plastering in ceiling 1:3 with coarse sand (ii) Per cubic meter of R.C.C work in beam 1:2:4.	K2	CO2	[6M]
3	a) Describe the various methods used for calculating the quantities of earthwork. Estimate the quantity of earthwork for 300m length for a portion of a road in an uniform ground the heights of banks at the two ends being 1m and 1.6m. The formation width is 10m and side slopes 2H:1V. Assume that there is no transverse slope.	K2	CO3	[6M]
	b) What factors play an important role in the case of bar bending?	K1	CO3	[6M]
4	a) Describe the various types of contract systems.	K2	CO4	[6M]
	b) Write a short note on Outgoings. Explain Development method and Depreciation method of valuation?	K2	CO4	[6M]
5	a) Explain in brief about valuation. What are the main purposes of the valuation?	K2	CO4	[6M]
	b) What are the various methods for calculating the Depreciation? Explain in detail.	K1	CO4	[6M]
6	a) Differentiate between the general specification of First and second-class buildings.	K2	CO4	[6M]
	b) Write a specification on Reinforced cement concrete.	K2	CO4	[6M]

