

Government College of Engineering, Aurangabad

(An Autonomous Institute of Government of Maharashtra)

CE442: ESTIMATING AND COSTING

Time : Three Hours

123, NOV 2016

Max. Marks :60

Verify the course Code and check whether you have got the correct question paper”

N.B.:-

1. All questions are compulsory
2. Figures to the right indicate full marks
3. Assume suitable data if necessary and state it clearly
4. Use of non-programmable calculator is allowed

1	Solve all					12	
A	Illustrate approximate estimate and methods of approximate estimate for buildings.					4	
B	Find out quantities of 1. Cement concrete and 2. Steel reinforcement in standard format of Measurement sheet and bar bending schedule for R.C.C. Column 4.8 m height and 300 X 650 mm in section with steel reinforcement as below; 6 no. 20 mm bars and 12 mm stirrups @ 135 mm c/c.					8	
2	Solve all					12	
A	Write short note on provisional sum, establishment charges, contingencies and prime cost.					4	
B	Estimate quantity of earthwork required for 1200 m length of a road by mean sectional area Method. Formation width of road is 10 m and side slopes are 1.5:1 (H:V).					8	
	CH	0	300	600	900	1200	1500
	R.L. of ground m	434.00	429.80	428.60	429.40	434.90	435.10
	R.L. of formation m	429.00	429.25	429.50	429.75	430.00	430.25
3	Solve all					12	
A	Illustrate task work and factors affecting rate analysis. Or Explain principles of specifications with types of specification.					4	
B	Analyse and prepare rate analysis in standard format for 20 mm external plastering in CM 1:3 in standard format with detail calculations.					8	
4	Solve any two					12	
A	Illustrate Depreciation and methods of depreciation.					6	
B	Illustrate sinking fund, year purchase and outgoings					6	
C	Illustrate annuity, leasehold property, capitalized value.					6	
5	Solve all					12	
A	Write short note on tender with types of tender. Illustrate essentials of valid contract.					6	
B	or					6	
	Write short note on item rate contract and percentage rate contract					6	