

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

CE-5002 (CBGS)**B.E. V Semester**

Examination, December 2017

Choice Based Grading System (CBGS)**Quantity Surveying and Costing***Time : Three Hours**Maximum Marks : 70*

- Note:* i) Total No. of questions are eight, attempt any five questions.
 ii) All questions carry equal marks.
 iii) Assume suitable missing values.

1. a) What are the rules to be followed while taking the measurements? 7
 b) Explain in detail various methods of preparing detailed estimate. 7
2. a) What are the requirements of rate analysis? Enlist the factors which affect the rate of analysis. 7
 b) Calculate the quantities of materials required for a R.C.C. roof slab 1:2:4 (12cm thick) with 1% reinforcement for a room 4.00m×3.00m. 7
3. a) Write down the purpose and importance of preliminary estimate in detail. 7
 b) The depth at two ends of an Embankment of road of length 70m are 2m and 2.5m. The formation width and side slope are 8m and 2:1 respectively. Estimate the quantity of earth work by
 i) Mid sectional area method
 ii) Mean sectional area method

4. a) What are the factors affecting the cost of work, explain in detail? 7
 b) Find out the quantity of masonry work in a segmental arch of clear span 3.5m and rise of 1.5m the thickness of the arch ring is 40cm and wall width is 40cm. 7
5. a) Describe in detail percentages for different services in buildings. 7
 b) Discuss contingencies in an estimate and how would you implement computer programmes for estimating and costing. 7
6. a) Define the following terms: 7
 i) Sinking fund
 ii) Scrap value
 iii) Year of purchase
 iv) Dual rate interest
 b) Write down the various methods of depreciations. 7
7. a) Explain work charge establishment in detail. 7
 b) Write detail notes on rent fixation of building. 7
8. a) Explain various methods of valuation. 7
 b) What factors are to be considered at the time of preparing the road estimate? 7

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