

Roll No.

24513

B. Tech. 7th Semester (Civil Engineering) Examination – May, 2019

ESTIMATING & COSTING

Paper : CE-405-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in total. Question No. 1 is *compulsory*. Attempt *one* question from each Section. All questions carry equal marks.

- 1. (i) Describe depreciation fund. 5 × 4 = 20
- (ii) Define Scrap and Mortgage value.
- (iii) Explain Analysis of Rate and Schedule of Rate.
- (iv) Calculate the quantity of Cement, Sand and Coarse Aggregate for 2.5 cubic meter concrete of M20 grade.

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P. T. O.

(v) Explain Standard Measurement Book.

SECTION – A

- 2. (a) Work out internal plaster for a room of size 5x3m and having height of 3.2m inside the room. Details of opening left within the room for door & window are 2.1 × 1.2 m & 1.5 × 1.8 m respectively. 12
- (b) Classify various kinds of estimates with examples. 8
- 3. (a) Calculate the volume of earthwork for 150m length of road with uniform embankment height of 1m at one end and 1.75m at the other end. Formation width of 10m with side slope of 2 : 1 on sides of the embankment. Ground is free from cross slope. Calculate the volume of earthwork using all three methods of estimation of earthwork. <https://www.haryanapapers.com> 12
- (b) Explain center line and long wall & short wall methods in details. 8

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SECTION – B

4. Write detailed specifications of the following :

5 × 4 = 20

- (i) Flooring of Roof
- (ii) D.P.C. work
- (iii) Cement Plastering
- (iv) Earthwork.

5. What are the specifications of buildings ? Give the specifications for first class, second class and third class buildings. 20

SECTION – C

6. (a) Give the purpose, importance and requirements of rate analysis. What is the contribution of estimation in rate analysis ? 10

(b) Determine the rate of 4.5 m long, 3.5 m high and 0.15 m thick wall to be constructed with cement mortar of 1 : 4 ratio. 10

7. (a) Prepare a rate analysis for a slab of 5.5 × 3.5 m size and constructed in a thickness of 150 mm using M15 without reinforcement to be used for flooring of a garage. 10

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P. T. O.

(b) Find out rate analysis for excavation in a trench for foundation. 10

SECTION – D

8. (a) Describe in details various terms and conditions of contract which are to be formulated while inviting tender for a civil engg. work. 10

(b) Explain in detail the various purposes of valuation. 10

9. Write notes on : 5 × 4 = 20

- (a) Rental-Return Method
- (b) Principal of Valuation
- (c) Rejection of Tender
- (d) Different types of Payments

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