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**Reg. No. :**

**Question Paper Code: 46012**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Sixth Semester

Civil Engineering

14UCE602 - ESTIMATION COSTING AND VALUATION ENGINEERING

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The term \_\_\_\_\_\_\_\_\_\_\_\_ indicates incidental expenses of miscellaneous character which cannot be classified under any distinct item sub-head, yet pertain to the work as a whole.

(a) Provisional sum(b) centage charges (c) departmental charges (d) contingencies

2. A portion of an embankment having a uniform up-gradient 1 in 500 is circular with radius 1000 m of the centre line. It subtends 180° at the centre. If the height of the bank is 1 m at the lower end, and side slopes 2:1, the earth work involved

(a) 27, 000 m3 (b) 26, 000 m3 (c) 27, 500 m3 (d) 27, 500 m3

3. \_\_\_\_\_\_\_\_\_\_\_of the skilled labour in the provided data may be taken as Ist class.

(a) 30% (b) 70% (c) 50% (d) 90%

4. The rate of payment is made for 100 cu m (per % cu m) in case of

(a) Earth work in filling the plinth (b) Excavation in trenches for foundation (c) Earth work in excavation (d) All the above

5. \_\_\_\_\_\_\_\_\_ is the total cost of construction including land, or the original amount required to possess a property.

(a) Capitalized value (b) overhead cost (c) capital cost (d) book value

6. The brick work is not measured in cu m in case of

(a) One or more than one brick wall (b) Brick work in arches (c) Reinforced brick work (d) Half brick wall

7. The rates quoted by a contractor in response to tender call are called

(a) Quotations (b) overhead cost (c) capital cost (d) book value

8. The expected out turn of cement concrete 1 : 2 : 4 per mason per day is

(a) 1.5 m3 (b) 2.5 m3 (c) 3.5 m3 (d) 5.0 m3

9. \_\_\_\_\_\_\_\_\_ is responsible for correct preparation and execution of the agreement.

(a) Assistant engineer (b) divisional engineer (c) junior engineer (d) chief engineer

10. For the construction of buildings, the subheads of the estimate are

(a) Earthwork, Concrete work, Brick work (b) Brickwork, Stone work, Roofing (c) Brickwork Flooring, Wood work, Steel work (d) All the above

PART - B (5 x 2 = 10 Marks)

11. Differentiate between plinth area and circulation area.

12. Define scrap value.

13. List out the types of contract.

14. Write the essentials requirements of contract.

15. What do you meant by depreciation?

PART - C (5 x 16 = 80 Marks)

16. (a) Different types of estimate and briefly explain any four. (16)

Or

(b) The thickness of metal crust of an existing macadam road is 15cm and the surface has become patchy and rough. It is proposed to modernize the road by providing one layers of stone macadam and two coats of surface painting. The metalled width of the road is 3.7 meter. Prepare a detailed estimate for modernizing one kilometer length of the road. (16)

17. (a) Describe the procedure of rate analysis. (16) Or

(b) Explain the terms below: (i) Analysis of rates (ii) Particular of item in rate analysis (iii) Schedule of rates (iv) Market rate. (16)

18. (a) What do you understand about general specifications. (16)

Or

(b) Briefly explain about tender documents and tender notice with example. (16)

19. (a) Explain contract and types of contract, Explain any two in details. (16)

Or

(b) Elaborate the arbitration and legal requirements of a contract. (16)

20. (a) Define valuation and also explain methods of valuations. (16)

Or

(b) Define depreciation and various methods of calculating depreciation. (16)