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**Question Paper Code: 46102**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

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)

- The order of booking dimensions is
  - Length, breadth, height
  - Height, breadth, length
  - None of these
  - Breadth, length, height
- 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.
  - Provisional sum
  - centage charges
  - departmental charges
  - contingencies
- The capacity of doing work by an artisan or skilled labour in the form of quantity of work per day is known as
  - Task
  - general overheads
  - job overheads
  - capital cost
- \_\_\_\_\_ of the skilled labour in the provided data may be taken as I<sup>st</sup> class.
  - 30%
  - 70%
  - 50%
  - 90%
- \_\_\_\_\_ is defined as the capital sum required to be invested in order to receive an annuity of rs. 1 at certain rate of interest.
  - Sinking fund
  - years of purchase
  - sinking fund factor
  - compound fund factor

6. \_\_\_\_\_ 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
7. The expected out turn of 2.5 cm cement concrete floor per mansion per day
- (a) 2.5 sqm (b) 5.0 sqm (c) 7.5 sqm (d) 10 sqm
8. The rates quoted by a contractor in response to tender call are called
- (a) Quotations (b) overhead cost  
(c) capital cost (d) book value
9. \_\_\_\_\_ is a contact deed between the government and the contractor.
- (a) Tender (b) contract agreement  
(c) contract (d) muster roll
10. \_\_\_\_\_ is responsible for correct preparation and execution of the agreement.
- (a) Assistant engineer (b) divisional engineer  
(c) junior engineer (d) chief engineer

PART - B (5 x 2 = 10 Marks)

11. Differentiate between plinth area and circulation area.
12. Define scrap value.
13. What is specification?
14. List out the types of contract.
15. What do you meant by depreciation?

PART - C (5 x 16 = 80 Marks)

16. (a) List out and explain the different types of estimates. (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) Analyse the rate of 38mm thick marble chips flooring rubbed and polished to granolithic finish, over a layer of 32mm cement concrete (1:2:4) (1 part cement, 2 parts washed and well graded sand, 4 parts well graded bajri) and top layer 6mm thick of 3mm gauge white marble chippings laid in cement (1 cement, 2 marble chipping) and polished. Assume suitable labour and material cost. (16)

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

Or

(b) Explain the muster roll and rules for preparation of muster roll. (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)

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