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Question Paper Code: 46102

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

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)

- _____ is the anticipated or probable cost of a work and is usually prepared before the construction is taken up.
(a) Rate of analysis (b) valuation
(c) estimation (d) depreciation
- 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
- The capacity of doing work by an artisan or skilled labour in the form of quantity of work per day is known as
(a) Task (b) general overheads
(c) job overheads (d) capital cost
- _____ of the skilled labour in the provided data may be taken as Ist class.
(a) 30% (b) 70% (c) 50% (d) 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.
(a) Sinking fund (b) years of purchase
(c) sinking fund factor (d) 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 _____ form an important part of contract document.
- (a) Detailed specification (b) general specification
(c) brief specification (d) valuation
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 contract deed between the government and the contractor.
- (a) Tender (b) contract agreement
(c) contract (d) muster roll
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. What is specification?
14. Write the essentials requirements of contract.
15. Define valuation.

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) Explain Detailed specification for cement concrete 1:2:4. (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) Mention the conditions of contract. (16)

Or

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

20. (a) Explain in detail about the purpose of valuation. (16)

Or

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