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Name :

Reg. No:

EIGHTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION, APRIL 2013

PT CE 09 802 : QUANTITY SURVEY AND VALUATION

Duration : 3 Hours

Maximum Marks : 70

PART A

Answer all questions

(5 × 2 Marks = 10 Marks)

1. Define revised estimate.
2. Give the necessary descriptions for the preparation of estimate of painting work.
3. Justify the need for abstract estimate for a construction project.
4. Define sinking fund.
5. State " Lease hold" properties.

PART B

Answer any four questions

(4 × 5 Marks = 20 Marks)

6. Bring out the important aspects to be considered in the preparation of detailed estimate.
7. What is a bar bending schedule? Illustrate the same using a suitable example.
8. Discuss the significance of specifications for various construction works and state typical specifications for painting.
9. Discuss briefly how the cost of construction materials at the construction site is arrived by incorporating the conveyance rates.
10. What is meant by valuation? What are the principles adopted in the valuation of old buildings.
11. Define depreciation? Discuss any two methods of calculating depreciation.

PART C

(4 × 10 Marks = 40 Marks)

- 12 (a) Inside dimensions of a room is 5.0 m × 4.0 m. One of the longer side wall has an opening of 1 m × 2m for door and one smaller side wall has an opening of 1.5 m × 1.2 m. for window. The wall is constructed of wire cut bricks and plastered with C.M. 1:6. on either sides. The ceiling plaster is carried out using CM 1:3. Prepare a material estimate for brick work and plastering for walls and ceiling.

Or

- (b) (i) Prepare the detailed material estimate for 100 m³ of RR (random rubble) work in CM 1 : 6.

Turn over

(ii) Prepare the data using local prevailing rates for materials and labour for the reinforcement work for roof slab.

13 (a) What are the important points to be considered while recording information in measurement book. Also, highlight significance of measurement book entries on bill preparation.

Or

(b) Explain the rules and methods that need to be followed in the measurement of following quantities

(i) Earthwork

(ii) Concrete

14 (a) Write a detailed specification for the following items of work.

(i) R. C. C. 1:2:4 for roof slab.

(ii) Foundation and basement in rubble masonry.

(iii) Doors and windows in wood.

(iv) Flooring using Ceramic tiles

Or

(b) What do you understand by cost of materials at source and cost of materials at site. Illustrate the case with the help of a suitable example.

15 (a) Write short note on

(i) Obsolescence

(ii) Market value

(iii) Book value

(iv) Annuity

Or

(b) Determine the present value of a building constructed 50 years ago for Rs 50,000/-. The estimated life of the building is 100 years and it is expected to have a scrap value of 10 % of construction cost at the end of its useful period.
