

**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION,  
DECEMBER 2008**

CE 04 801—QUANTITY SURVEYING AND VALUATION

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

- 1 (a) What are the different types of estimate?  
(b) What are the main points should contain an estimate report?  
(c) As per IS 1172-1971 what will be the requirement of sanitary fittings for office buildings.  
(d) What are the different methods of earth work for roads?  
(e) What is analysis of rates? What are the factors control the rates of a particular item of work?  
(f) How do you prepare abstract of estimate of a civil engineering work?  
(g) What is sinking fund? How do you estimate the sinking fund?  
(h) What is depreciation? Explain the methods of calculating depreciation.

(8 x 5 = 40 marks)

2. Figure 1, (on page 3) the plan represents the plan of superstructure wall of a single room building of 5m x 4m, and sections represent the cross sections of the walls with foundation, Estimate the quantities of (i) earthwork in excavation in foundation (ii) concrete in foundation (iii) brickwork in foundation and plinth and (iv) brickwork in superstructure.

(15 marks)

*Or*

Prepare a detailed estimate for Fig. 1. Data required may be assumed suitably. (15marks)

3. (i) Calculate the area of the side slopes of portion of a bank for a length of 300m the heights of the banks at the two ends being 3.0m and 4.0m and ratio of the side slope 2:1. If the side slopes are to be provided with 20 cm thick stone pitching, calculate the cost of pitching at the rate of Rs. 1500/- per cu m.

(7 marks)

- (ii) Prepare a detailed estimate for supplying and laying 150mm dia. Glazed stone ware pipe for 200m length joining with 1:2 cement mortar including trenching up to a depth of 100 cm. Estimate should be prepared to include all materials.

*Or*

(8 marks)

**Turn over**

Prepare an estimate of a surface drain for 10m length from the given Fig. 2.

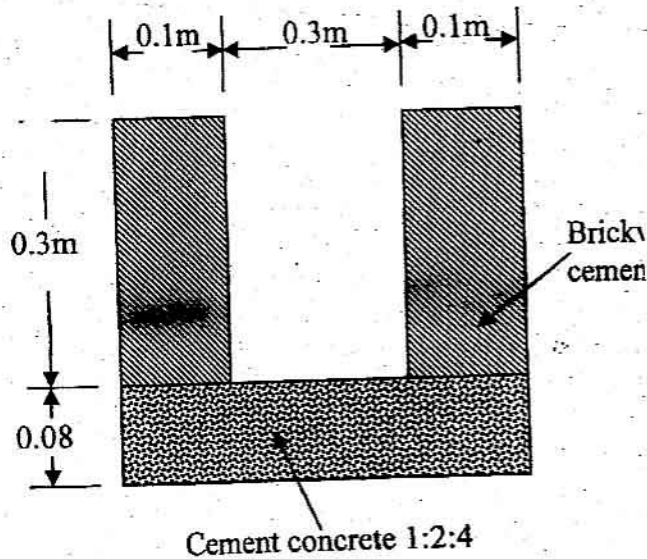


Figure 2

4. (i) What are the different kinds of traveling allowance? What are the factors governing traveling allowance? (15 marks)

(ii) How do you prepare a conveyance statement? (5 marks)

Or

Prepare a bar bending schedule for simply supported and continue beam and one way and two way slabs (15 marks)

5. How do you determine the valuation of a building? What are the different methods of valuation? Explain each method in details? (15 marks)

Or