MODEL QUESTION PAPER

EIGHTH SEMESTER B.Tech. DEGREE EXAMINATION, APRIL 2012

08.804: QUANTITY SURVEYING & VALUATION (C)

Time: 3 Hours
Max. Marks: 100

Instructions: Answer all questions from Part A and Part B

PART - A

I.

(1). Describe briefly the necessity of an estimate and list the different types of estimates.

(2). Explain the purpose of valuation.

(3). What are the uses of 'data book' and schedule of rates.

(4). What is meant by 'Sinking Fund'?

PART - B

II. (5). (a). Write down the detailed specification for (i) plastering with cement mortar and (ii) damp proof course 2.5cm thick with 1:1.5:3 concrete.

(b). Work out the unit rate for brickwork in cement mortar 1:6 using country burnt bricks for foundation and basement (For 1m³; brick 500nos; 0.24m³ sand; 58kg cement; Labour: 0.7 brick masons; 0.35man, 0.7woman; rate: bricks Rs.830/- per 1000Nos.; sand Rs750/- per 1.0m³; cement Rs4000/- per tonne; mason-Rs550/-; man-Rs475/-; woman-Rs400/-).

(6). (a). Give detailed specification for (i) laterite wall 23cm thick in cement mortar 1:3 for load bearing wall and (ii) RCC roof slab for residence.

(b). Work out the unit rate for the following works: RR masonry in cement mortar 1:4, 10m³ for basement.

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
<th>Rate, Rs./-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubble</td>
<td>10m³</td>
<td>Rs.200/m³</td>
</tr>
<tr>
<td>Sand</td>
<td>2m³</td>
<td>Rs.750/m³</td>
</tr>
<tr>
<td>Cement</td>
<td>12bag</td>
<td>Rs.350/bag</td>
</tr>
<tr>
<td>Labour mason</td>
<td>3.5men</td>
<td>Rs.550/person</td>
</tr>
<tr>
<td>Men/women</td>
<td>8</td>
<td>Rs.475/person</td>
</tr>
</tbody>
</table>

(15 marks)
III. (7). Estimate the quantities and prepare the abstract of estimate (based on existing rates) of the following:- (Refer Fig. 1 for details)

(a). Earthwork in foundation.

(b). Plain cement concrete in foundation.

(c). 2.5cm thick Damp proof course at plinth level.


(e). 7.5cm thick plain cement concrete flooring.  (50 marks)

OR

(8). Prepare a detailed estimate of a RCC column with footing from the given drawing. Bar bending schedule is also to be prepared along with the detailed estimate. (Refer Fig. 2 for details). Use existing rates for the items.  (50 marks)

IV. (9). (a). How is the rent for a building fixed?

(b). A newly constructed building stands on plot costing Rs.130,000/-. The construction cost of the building is Rs.270,000/- and estimated life is 70 years. The investor decides to have 8% returns on his outlay. Annual repairs may be taken as 25% and the interest for sinking fund may be taken as 4%. Calculate the monthly rent that will have to be charged for the building.  (15 marks)

OR

(10). (a). What is depreciation? Explain the various methods of calculating depreciation.

(b). Write short notes on (i) scrap value (ii) salvage value (iii) outgoings and (iv) obsolescence.  (15 marks)