

**CE - 704****B.E. VII Semester**

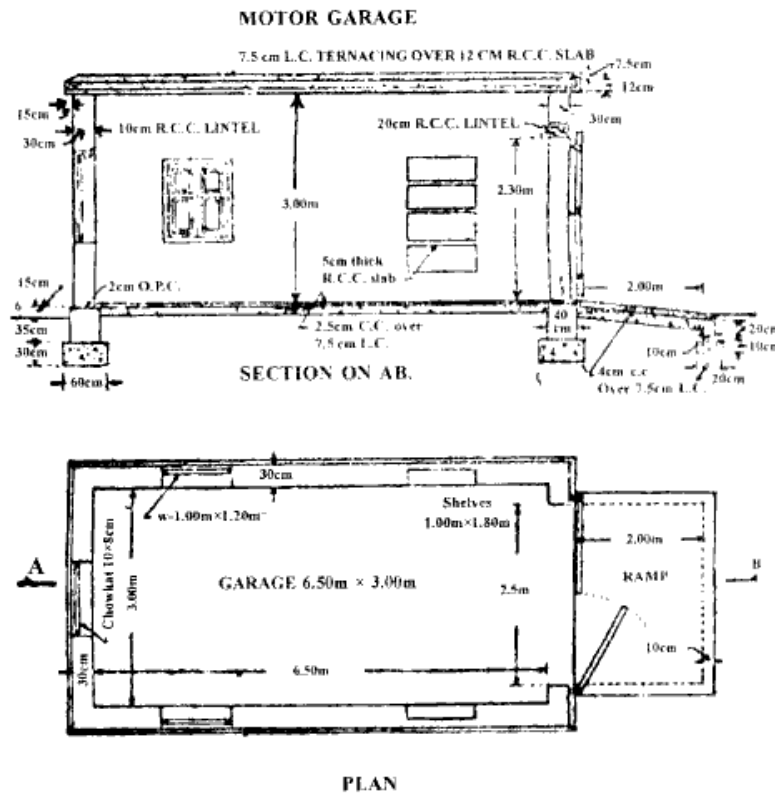
Examination, December 2015

**Quantity Surveying And Costing****Time : Three Hours****Maximum Marks : 70**

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.  
 ii) All parts of each question are to be attempted at one place.  
 iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.  
 iv) Except numericals, Derivation, Design and Drawing etc.

1. a) What is the principle of estimating?
- b) Explain measurement sheet.
- c) Write down the unit of measurements and the units of payments for painting half glazed, half panelled shutter, pointing, G.I. sheet roofing, Arch work, Glass panes, brick on edge flooring. **rgpvonline.com**
- d) What are the different types of estimates? Describe any two of them.

OR



Explain the following: **rgpvonline.com**

- i) Revised and supplementary estimate.
- ii) Plinth area rate estimate and cubical content rate estimate

2. a) What is rate analysis?  
 b) Explain Job overheads.  
 c) Explain "Task" enlist the information and sequential steps.  
 d) Prepare analysis of rate for 1:1½:3 reinforced cement concrete work in beams, slabs, etc.

OR

Prepare analysis of rate for first class brick work in 1:6 cement mortar in foundation and plinth.

3. a) What is detailed estimate?  
 b) Explain trapezoidal formula.  
 c) Explain long wall-short wall method in detail.  
 d) For the attached drawing work out the quantities of the following items.
- i) Earth work in excavation in foundation.
  - ii) 12 mm thick cement plastering.

OR

First class brick work in cement mortar in super structure.

4. a) Define contingencies.  
 b) Discuss various factors affecting cost of work.  
 c) Discuss various percentages for different services in building.  
 d) Discuss in detail how the cost of work can be minimized to a certain limit.

OR

What is DPR? Discuss the content of DPR in detail.

5. a) Define sinking fund.  
 b) Differentiate between scrap value salvage value.  
 c) What is depreciation? Explain.  
 d) A concrete mixer was purchased at Rs. 60,000/-. Assuming salvage value to be Rs. 6000/- after 8 years calculate depreciation and book value for each year adopting sinking fund method considering 6% interest.

OR

The cost of a building is Rs 25 lakhs. Find out the depreciated cost of building after 20 years by straight line method and constant percentage method if the scrap value is Rs 2.5 lakhs. Assuming the life of the building 60 years.