

**B. TECH DEGREE EXAMINATION, MAY 2012**  
**MODEL QUESTION PAPER**  
**FIFTH SEMESTER**  
**CE010 505 Quantity Surveying and Valuation**

Time 3hrs.

100 Marks

**Assume any missing data suitably**

I.

a) For the building shown in figure A work out the quantities of the following items of work

- i. Earth work excavation for foundation
- ii. Wood work assuming joinery details
- iii. Plastering with C.M 1:4 for the walls
- iv. Flooring with Marbles

(4X10)

OR

b) For the building shown in figure A work out the quantities of the following items of work.

- i. Brick work in C.M 1:6 for superstructure
- ii. R.R in C.M for foundation and basement
- iii. Color washing the walls in and outside
- iv. R.C.C for lintels and roof slab.

(4X10)

II. Write detailed specification for the following items of works.

a)

- i. Painting on Metal
- ii. Brick work in C.M 1:6
- iii. Earth work excavation in ordinary soil
- iv. R.C.C 1:2:4 for roof concreting

(4X5)

OR

b)

- i. Terrazzo flooring
- ii. Painting on new wood works
- iii. Laterite works in C.M 1:5 for superstructure
- iv. Plastering in C.M 1:3

(4X5)

III. Work out the rates of the following items of work using local prevailing rates

a)

- i. Plastering in C.M 1:5
- ii. Brick work in C.M 1:6 for superstructure

(2X10)

OR

b)

- i. Plastering in C.M 1:4 for ceiling
- ii. P.C.C 1:5:10 for foundation

(2X10)

IV.

a) A real estate agent purchases a vacant land of extent 5 hectares at a cost of Rs. 50 per  $m^2$ . He divides the land into building plots of  $500 m^2$  area after leaving 30% of the land for roads, parks etc. Expenses for the development is at Rs. 200 per  $m^2$  and technical charges at 5% of cost price. Work out the selling price of each plot if the agent expects 25% profit for his investment.

(10)

OR

b) A colonizer desires to purchase a piece of land measuring  $1,50,000 m^2$ . After developing this land for housing colony he wants to sell plots of  $500 m^2$  each after providing necessary roads, parks and other amenities, at the rate of Rs. 300 per  $m^2$ . The colonizer wants a net profit of 25%. Work out the maximum price of land at which he may purchase the land.

(10)

V.

a) A RCC framed two-storied building is standing on a plot of land measuring  $900 m^2$ . The plinth area of each storey is  $400 m^2$ . The future life of the structure is 60 years. It fetches a gross rent of Rs 10,000 per month. Work out the capitalized value of property on the basis of 6% net yield. For sinking fund, 3% compound interest may be assumed. Cost of land may be taken as Rs 700 per  $m^2$ .

The outgoings are as under.

- (i) Repair and maintenance-5% of gross income.
- (ii) Taxes-12% of gross income.

(10)

OR

b) A government employee drawing a salary of Rs 10,000 per month occupy a quarters having a plinth area of  $120 m^2$ . Prevailing cost of construction per  $m^2$  is Rs 10,000. Calculate and suggest the amount of monthly house rent payable by the employee.

(10)