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Roll No						

Total No. of Pages : 02

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B. Architecture (Sem.-6) ESTIMATING COSTING & BUILDING ECONOMICS-I Subject Code : AR-332

Time : 3 Hrs.

Max. Marks : 50

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any THREE Questions in ALL including Question No. 5 which is COMPULSORY
- 2. Assume any missing data, and mention the same.
- 3. Support the answer with suitable sketches as per the need.
- 1. Define Estimate. Discuss, in detail, the various methods of approximate estimation as required for a particular type of building. Discuss the merits and demerits of each method of estimation. (15)
- 2. Calculate the material requirement i.e. No. of Cement Bags, Sand, Bricks, and Coarse Aggregate for the following items:
 - a) Cement concrete in 1:2:4 for R.C.C. work excluding reinforcement for total 200 cubic meter quantity. (8)
 - b) 230 mm thick first class brick masonry works for the superstructure of 130 cum quantity in cement mortar 1:6. (7)
- 3. What do you mean by valuation? How it is different from estimation? Discuss the various techniques of valuation. (15)
- 4. a) *"To finalise the rate of an item, the analysis of rates is must"*. Justify the statement in context of cost estimation of a structure. (7)
 - b) Prepare a preliminary estimate of a building project with a total plinth area of 2500 sq.m. The details are as under :
 - i. Rate for plinth area Rs. 15,000 per sq.m.
 - ii. Extra for water supply & sanitation -12%
 - iii. Electrification 8%
 - iv. Contingencies -10%
- 5. Calculate the bill of quantities for single story house of the following items for a given plan at figure 1. you are required to assume section with the mention of foundation, plinth, parapet etc. by own. (20)

(8)



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- i. Earth Work in excavation
- ii. PCC under floors
- iii. Brick work in superstructure

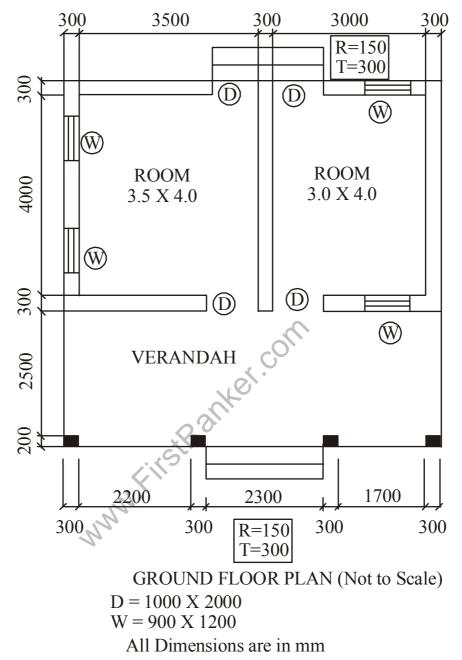


FIG. 1

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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