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10CV/CT73

Seventh Semester B.E. Degree Examination, June/July 2018

Estimation and Valuation

Time: 3 hrs.

Max. Marks:100

Note: 1. *PART-A is compulsory.*

2. *Answer any two full questions from PART-B and PART-C each.*

3. *Missing data may be assumed suitably.*

PART - A

- 1 The details of residential building is as shown in Fig.Q1. Work out the quantities and cost for the following items of work, by the centre line method.
- Centre line calculation with line diagram. (06 Marks)
 - Earth work excavation for foundation in ordinary soil at Rs.180/m³. (05 Marks)
 - Size stone masonry in CM 1:8 for foundation and basement at Rs.3800/m³. (09 Marks)
 - First class brick work in super structure in CM 1:6 upto roof slab at Rs.4300/m³. (09 Marks)
 - Plastering to inside walls in CM 1:3 with lime rendering at Rs.220/m². (06 Marks)
 - Total cost abstract for above items. (05 Marks)

PART - B

- 2 Estimate the detailed quantity of a fully paneled teak wooden door of size 1.2m × 2.10m as shown in Fig.Q2. Also work out the cost of a Honne wood and fastening and fixture required. Use your local prevailing rates. The data given are as under:
- Frame = 8 × 12 cms
 Top rails = 10 × 4.5 cms
 Lock rail = 15 × 4.5 cms
 Frieze rail = 10 × 4.5 cms
 Hanging styles = 10 × 4.5 cms
 Bottom rail = 20 × 4.5 cms. (15 Marks)
- 3 The details of a manhole is given is Fig.Q3. Find the quantities of the following items.
- Earthwork in excavation for foundation in hard soil.
 - B.B.M in CM 1:4 for walls
 - R.C.C. roof covering slab in CC 1:2:4.
 - Plastering in CM 1:3 for inside walls. (15 Marks)
- 4 Write the detailed specification for any three of the following items:
- Burnt brick masonry in CM 1:6
 - R.C.C. work in roof slab in CC 1:2:4
 - Plastering in CM 1:3 for inside walls
 - Mangalore tiled roof over sal wood battens. (15 Marks)

PART - C

- 5 Work out from first principles the analysis of rate for the following any three items:
- Current concrete foundation bed in CC 1:3:6
 - Coursed rubble stone masonry in CM 1:8 for foundation.
 - Damp proof course 25 mm thick in CM 1:3
 - 12 mm thick Cement plastering in CM 1:3. (15 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

- 6 Estimate the quantities of earth work from chainage 70 to 76 measured with a standard 20 m chain from the following data. Use mean sectional area method. Side slopes 1:1 in cutting and 2:1 in banking.

Chainage	70	71	72	73	74	75	76
Ground RL's	88.10	87.74	87.80	88.20	90.75	90.20	89.98
Formation level	88.50	← raising gradient 1 in 100					

Formation width of road is 10 m. Draw the longitudinal section of the proposed road.

(15 Marks)

- 7 Write short notes on:

- Earnest money and security deposit
- Measurement book and nominal muster roll
- Administrative approval and technical sanction

(15 Marks)

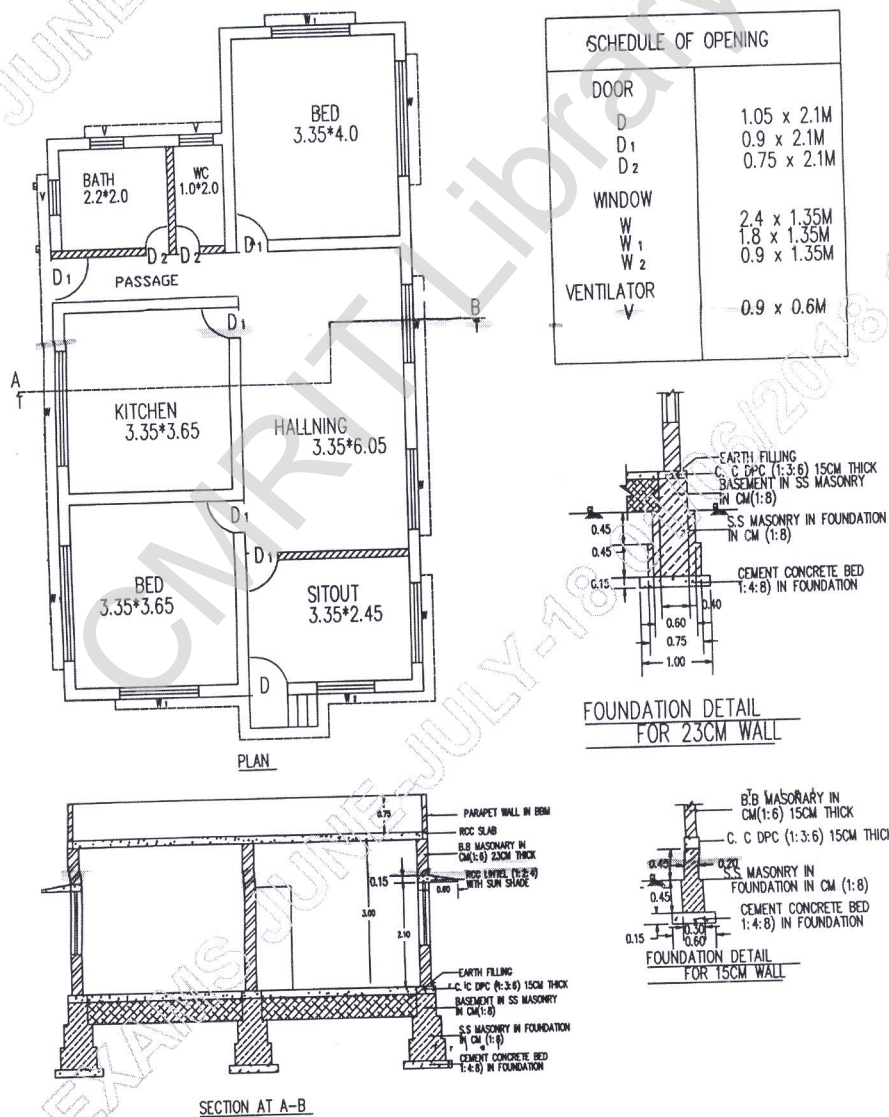


Fig.Q1

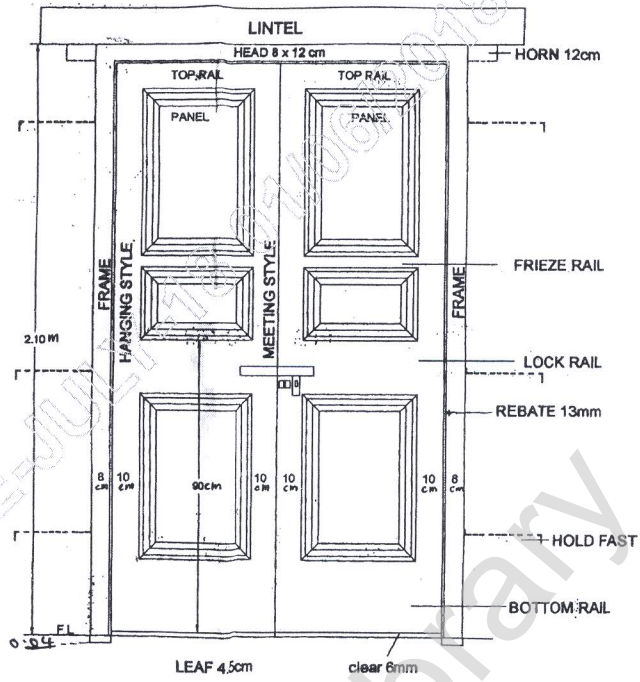


Fig.Q2

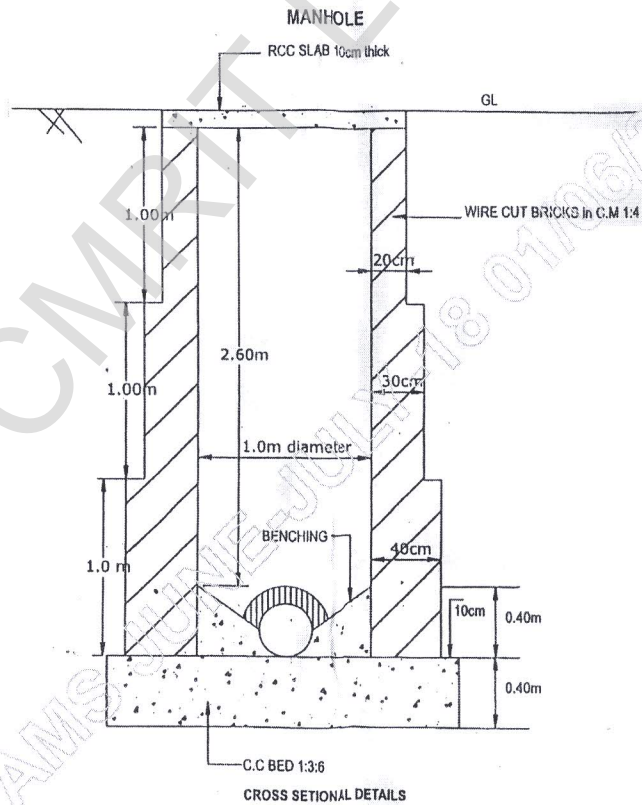


Fig.Q3
