

## ONE TIME EXIT SCHEME

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CMRIT LIBRARY  
BANGALORE - 560 037

10CV/CT73

Seventh Semester B.E. Degree Examination, April 2018  
**Estimation and Valuation**

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer Q.NO.1 and any FOUR of the remaining.  
2. Assume suitably, any missing data.

PART - A

- 1 The plan of building is shown in Fig.Q1. Workout the quantities and cost of the following item of work.
- Earth work excavation for foundation in hard soil at Rs.211.00/cum.
  - CC 1:4:8 bed for foundation at Rs.4329/cum.
  - Size stone masonry in CM 1:8 for foundation and CM 1:6 for basement at Rs.2354/cum and Rs.2862/cum respectively.
  - Burnt brick masonry for superstructure in CM 1:6 at Rs.5326/cum.
- Note: Cut Lintel of size 0.3 × 0.2 and 0.75 m chejja projection. (40 Marks)
- 2 Write detailed specification for any three of the following:
- Size stone masonry for basement in CM 1:6.
  - Providing and construction BBM for super structure in CM 1:6.
  - Providing and laying CC 1: 1½ : 3 for RCC roof slab.
  - External plastering in CM 1:6. (15 Marks)
- 3 Workout from first principles, the safe analysis for any three of the following:
- Size stone masonry for foundation CM 1:8.
  - 20 mm thick plastering to wall with CM 1:6.
  - B.B.M for superstructure in CM 1:6.
  - R.C.C. 1: 1½ : 3 for roof slab with 1% steel. (15 Marks)
- 4 Estimate the quantity of earth work for a portion of road for 400 m length from the following data. Formation width of the road is 10 metre side slopes are 2:1 in banking and 1½ :1 in cutting.

Chainage in mt	1000	1040	1080	1120	1160	1200	1240	1280	1320	1360	1400
RL of ground (m)	51.00	50.90	50.50	50.80	50.60	50.70	51.20	51.40	51.30	51.00	50.60
RL of formation	52.00 ← downward gradient of 1 in 200 →										

(15 Marks)

PART - B

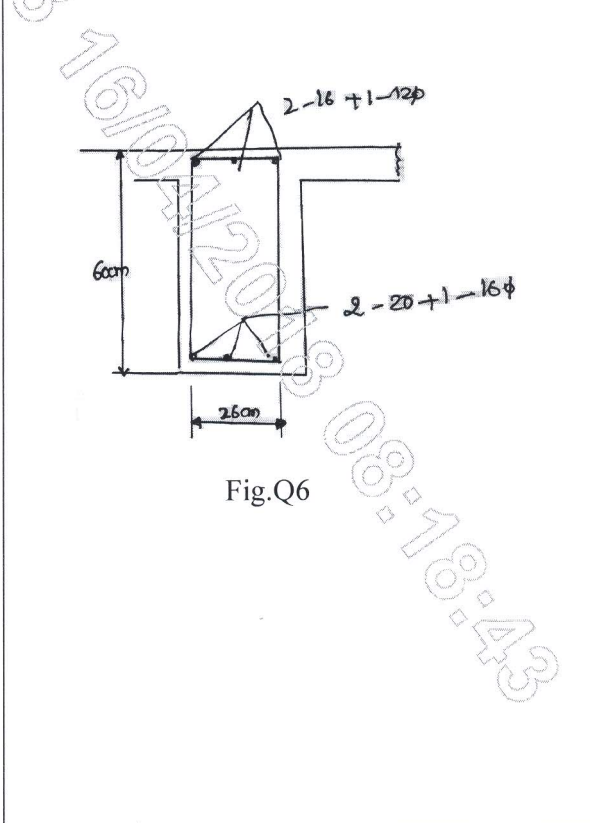
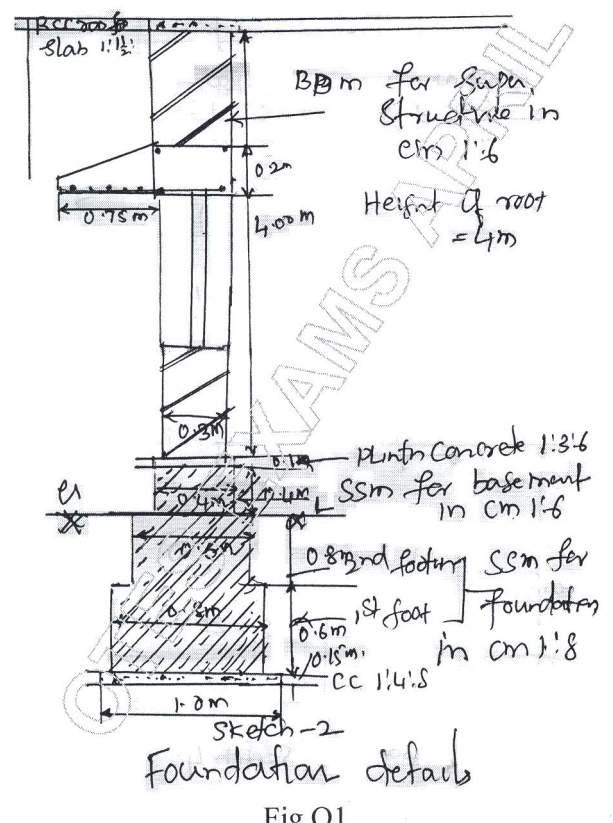
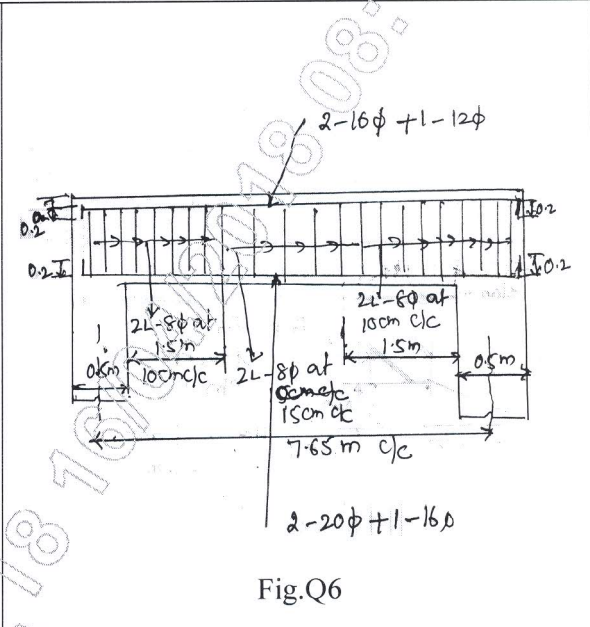
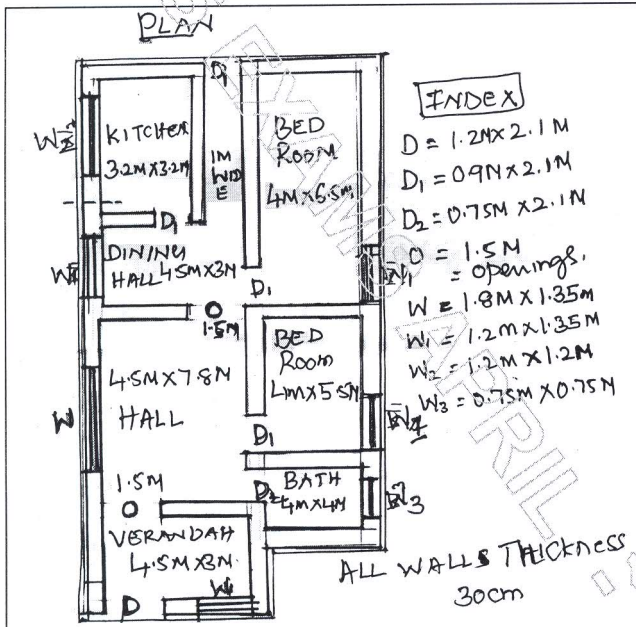
- 5 a. Briefly explain different types of estimates. (08 Marks)  
b. Explain different types of contracts. (07 Marks)
- 6 Fig.Q6 shows the longitudinal section of RCC beam of size 300 mm × 600 mm. Calculate the quantity of steel required, diameter wise if the weight of rod/mt is as follows:
- 8 mm → 0.4 kg/mt      12 mm → 0.9 kg/mt      20 mm → 2.0 kg/mt  
10 mm → 0.6 kg/mt      16 mm → 1.6 kg/mt      25 mm → 3.8 kg/mt (15 Marks)

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- 7 Write short notes on any **Three** of following:
- Earnest money deposit (EMD) and security deposit (SD)
  - Nominal Muster Roll (NMR)
  - Technical sanction and administration approval
  - Specification and its importance

(15 Marks)



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