

**CV701**

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M S RAMAIAH INSTITUTE OF TECHNOLOGY

(AUTONOMOUS INSTITUTE, AFFILIATED TO VTU)

BANGALORE – 560 054

SEMESTER END EXAMINATIONS – JANUARY 2012**Course & Branch : B.E. – Civil Engineering****Semester : VII****Subject : Estimating and Costing****Max. Marks : 100****Subject Code : CV701****Duration : 3 Hrs****Instruction to the Candidates:**

- Question No.1 and any three of the remaining questions.

UNIT – I

1. The accompanying sketch shown in Fig.1 indicates the plan and section of a residential building. Prepare a detailed estimate for the below mentioned items with abstract.
 - Earth work excavation for foundation in ordinary soil (06)
 - Providing and laying foundation bed concrete in CC 1:4:8 (04)
 - Size stone masonry in CM 1:6 for foundation course (10)
 - DPC (1:3:6) (04)
 - 200mm Hollow concrete block in CM 1:6 for super structure. (10)
 - 100 MM Hollow concrete block for partition walls. (05)
 - Plastering for interior walls and ceiling (10)
 - Fully paneled teak wood doors, windows, ventilators. (06)

2. Following table gives RL for a portion of 400m length of road. Compute (15)
the quantity of earth work by mean area method.

Distance (m)	1000	1040	1080	1120	1160	1200	1240	1280	1320	1360	1400
R.L. of ground	31.0	30.9	30.5	30.8	30.6	30.7	31.2	31.4	31.3	31.0	30.6
R.L. of Formation	32.0	DOWN GRADIENT 1 in 100									

Road width = 10m, side slope 2:1 in filling 1.5:1 in cutting
Plot the typical longitudinal section for the same.

3. Write detailed specifications for the following: (15)
 - i) 20mm thick cement plastering in CM 1:5 over brick masonry
 - ii) Cement concrete bed for foundation 1:4:8
 - iii) Painting steel and iron works
4. Analyse the rate per unit for the following items of work. (15)
 - i) Brick masonry in CM 1:6 for super structure
 - ii) Cement plastering in CM 1:4 for brick wall
 - iii) R.C.C. roofing of 12cm thick with 1% steel reinforcement of M20 grade.

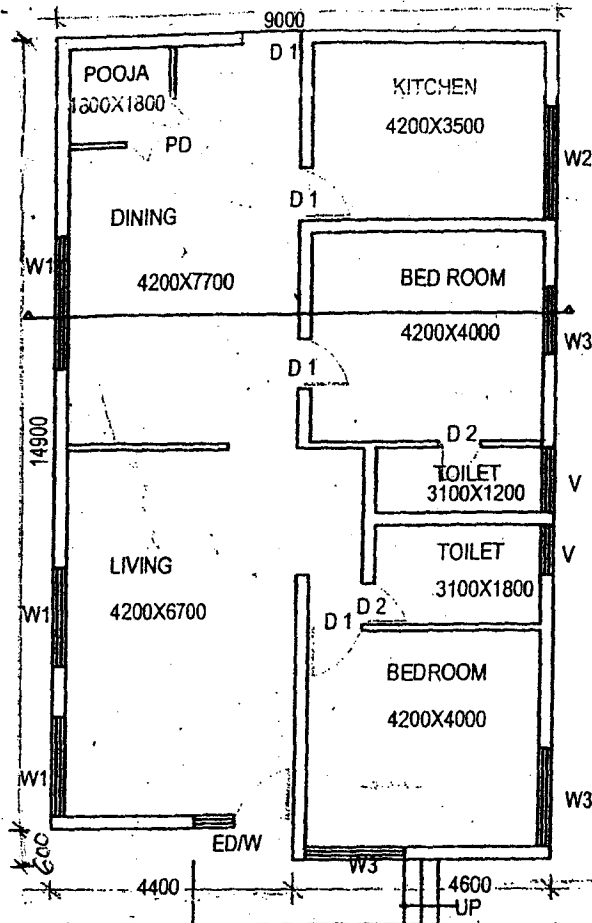


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5. Prepare a detailed estimate of a manhole for the following items. Refer (15)
Fig.2.
- i) C.C. bed in foundation 1:3:6
 - ii) BBM in cement mortar 1:4
 - iii) Plastering with cement mortar 1:4
6. Write short notes on the following: (15)
- i) Earnest money deposit and security deposit
 - ii) Lumpsum contract and item rate contract
 - iii) Tender and quotation

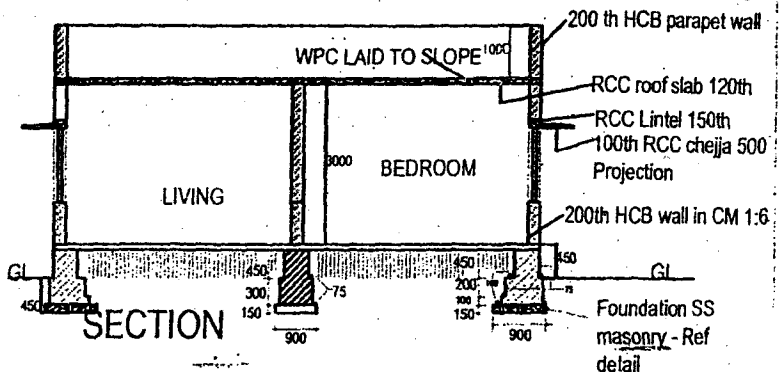


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Door-window schedule

ED/W - 1200X2100 & 750 X 1200
D1 - 900X2100
D2 - 750X2100
D3 - 2000X2100
PD - 1200X2100
RS - 2800X2400
W1 - 1800X1500
W2 - 1800X900
W3 - 1800X1200
V - 1200X750



NOTE

ALL DIMENSIONS ARE IN MM
FOUNDATION - 1:4:8 PCC BED WITH SIZE STONE MASONRY IN CM 1:6
FLOORING - MARBLE TILES ON PCC BED 100th
WALLS - 200 TH / 100 TH HOLLOW CONC. BLOCKS

P.1 FIG-1

MAN HOLE

