

B.E. Civil Engineering (CBCS Pattern) Semester - VIII  
**CE801 - Quantity Surveying and Estimation**

P. Pages : 2

Time : Four Hours

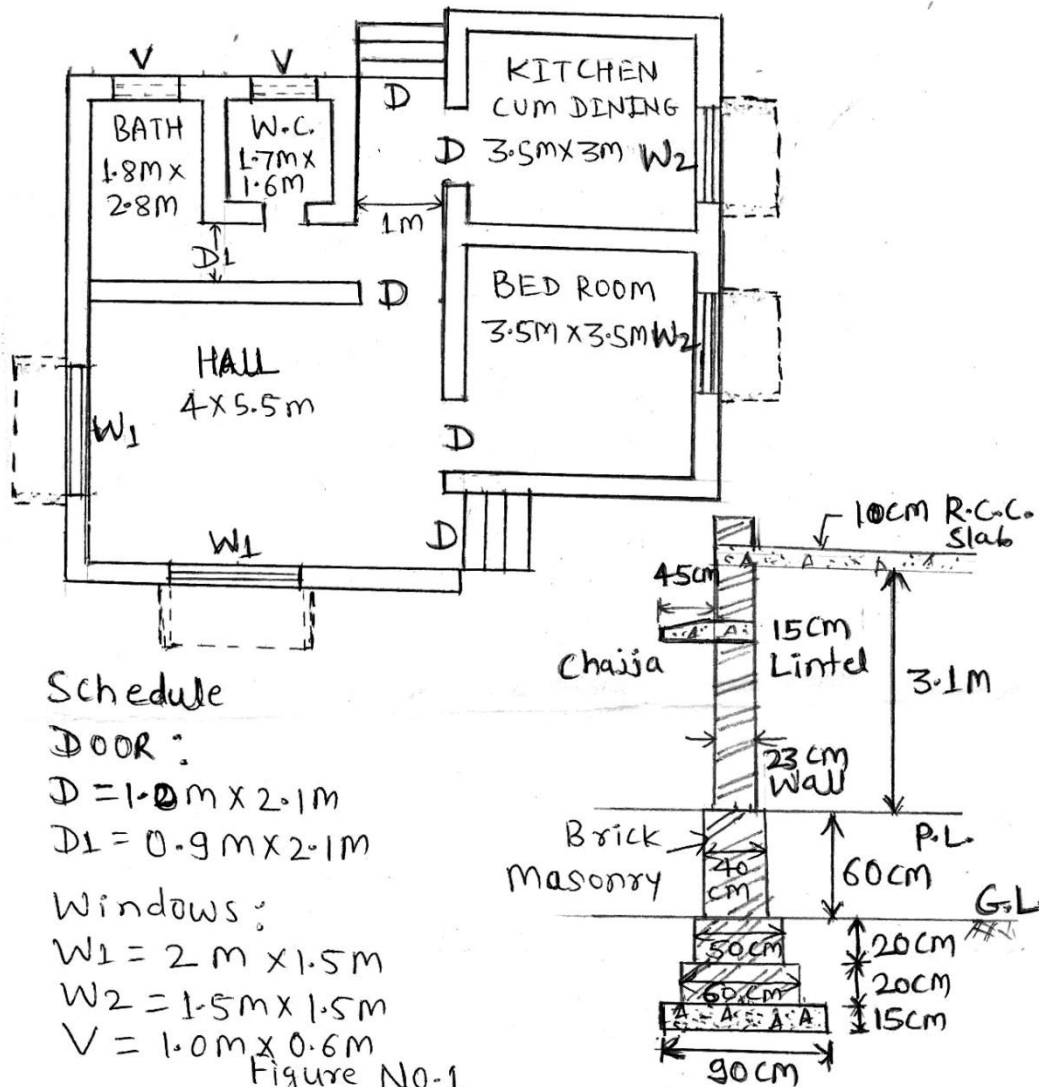


GUG/S/23/13587

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
  2. Question No. **one** is compulsory.
  3. Due credit will be given to neatness and adequate dimensions.
  4. Assume suitable data wherever necessary.
  5. Retain the construction lines.
  6. Illustrate your answers wherever necessary with the help of neat sketches.

1. Estimate the quantities for the following items for building plan & typical wall section as shown in fig 1 **16**
- i) II<sup>nd</sup> class brick masonry in c.m. 1:6 in foundation & plinth
  - ii) II<sup>nd</sup> class brick masonry in c.m. 1:6 in superstructure
  - iii) 12mm thick internal plaster to walls
  - iv) R.C.C. 1:2:4 for slab



2. a) Explain the importance and purpose of estimate. **8**
- b) Explain standard measurement book and computerized measurement book. **8**

**OR**

3. a) Details of longitudinal section of a road earthwork survey are given below. Calculate quantity of earth work from following data formation width 10m and side slop in i) Banking 2:1 ii) cutting 1:5:1 **10**

Chainage	0	30	60	90	120	150	180
RL of ground	99.70	99.80	100.30	100.50	100.80	100.90	100.60
RL of formation	100.50		In 300 (+)		In 150 (-)		-

- b) What are the different types of estimate. Explain revised estimate in detail. **6**
4. a) Write detailed specifications for following items. **8**
- i) Brick masonry in c.m. 1:6 in super structure.
- ii) Cement concrete for R. C. C. work.
- b) What is the importance of current schedule of rate CSR in cost estimate? Also explain factors affecting analysis of rates. **8**

**OR**

5. a) Work out the analysis of rate for following items. **10**
- i) 12mm thick internal plaster in c.m 1:4
- ii) 40mm thick cement concrete 1:2:4 for flooring.
- b) What do you understand by task work of a labour? Explain factor affecting task work. **6**
6. a) What is mean by contract? Which documents should be included in contract **8**
- b) Explain in brief land acquisition act and arbitration. **8**

**OR**

7. a) What is Tender notice. What information should be included in detail tender notice. **8**
- b) Difference between Earnes money deposit and security deposit. **8**
8. a) Define valuation also explain the purpose of valuation. **8**
- b) A person has purchased an old building at the cost of Rs. 80 lakh on the basis that the cost of land is Rs. 40 lakh and cost of building structure 40 lak. Considering future life of building as 20 years. Calculate the amount of sinking fund at 5% interest, when scrap value is 10% of building structure. **8**

**OR**

9. a) Write short notes on **any four**. **16**
- i) M.A.S account
- ii) Scrap value and book value
- iii) Different types of tender & adoptability of each type.
- iv) Value, cost & Price
- v) Leasehold & Freehold property.

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