

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -1 EXAMINATION- Sep 2019
M-Tech 1st Semester

COURSE CODE: 10M11CE112

MAX. MARKS: 15

COURSE NAME: Estimation and Costing

COURSE CREDITS: 3

MAX. TIME: 1Hr

Note: Question no 2 is compulsory, attempt either 1 or 3. Carrying of mobile phone or sharing of materials during examinations will be treated as case of unfair means.

Q1. What do you mean by estimate? Also explain the different method of estimate in detail. [5 Marks]

Q2. Attempt any four: [2.5x4 = 10 Marks]
Calculate the quantities of following items of works by entering the same in standard format of measurement sheet (Refer Fig. 2(a) and 2(b))

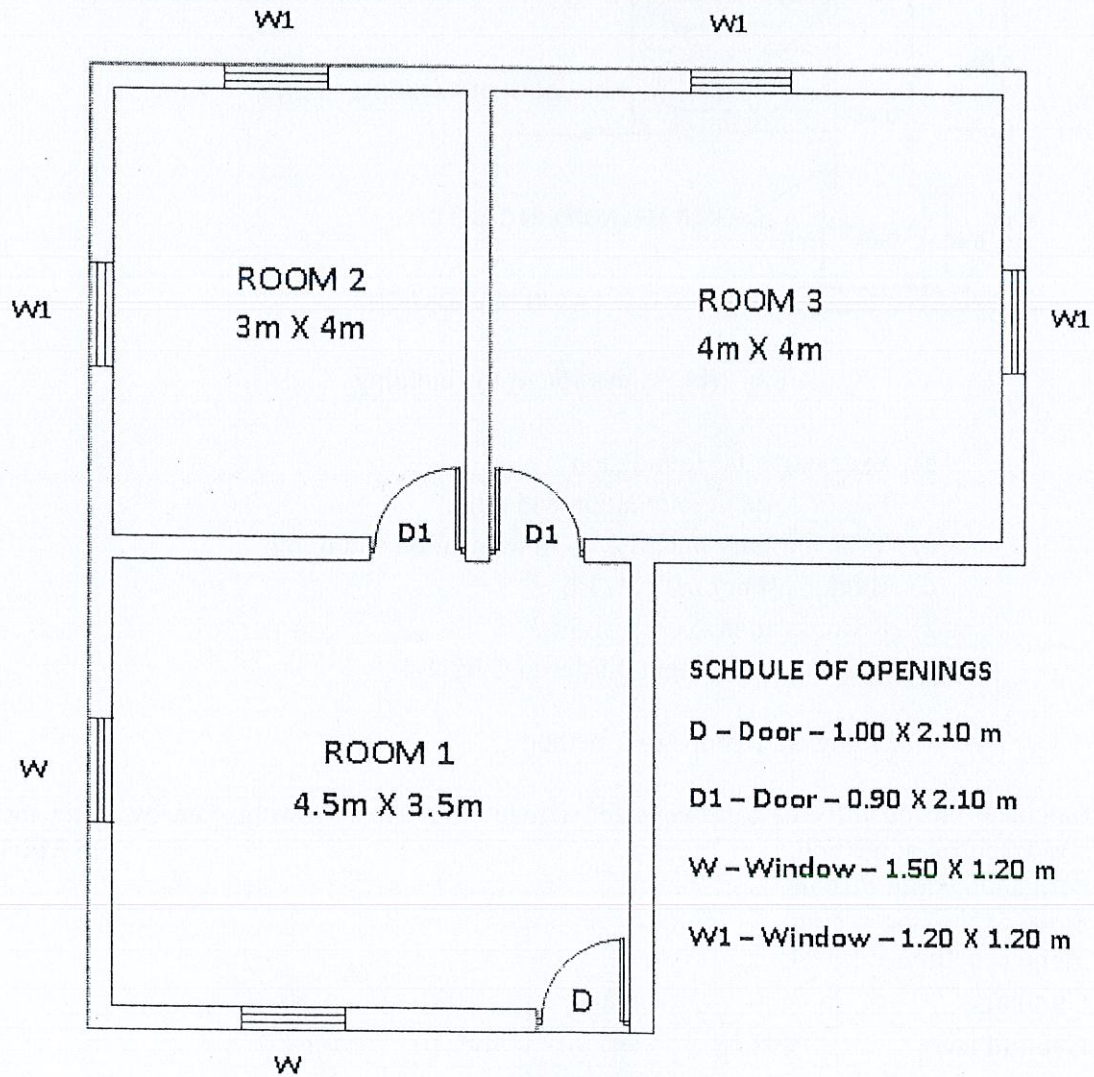


Fig. 2(a) : Plan of the building

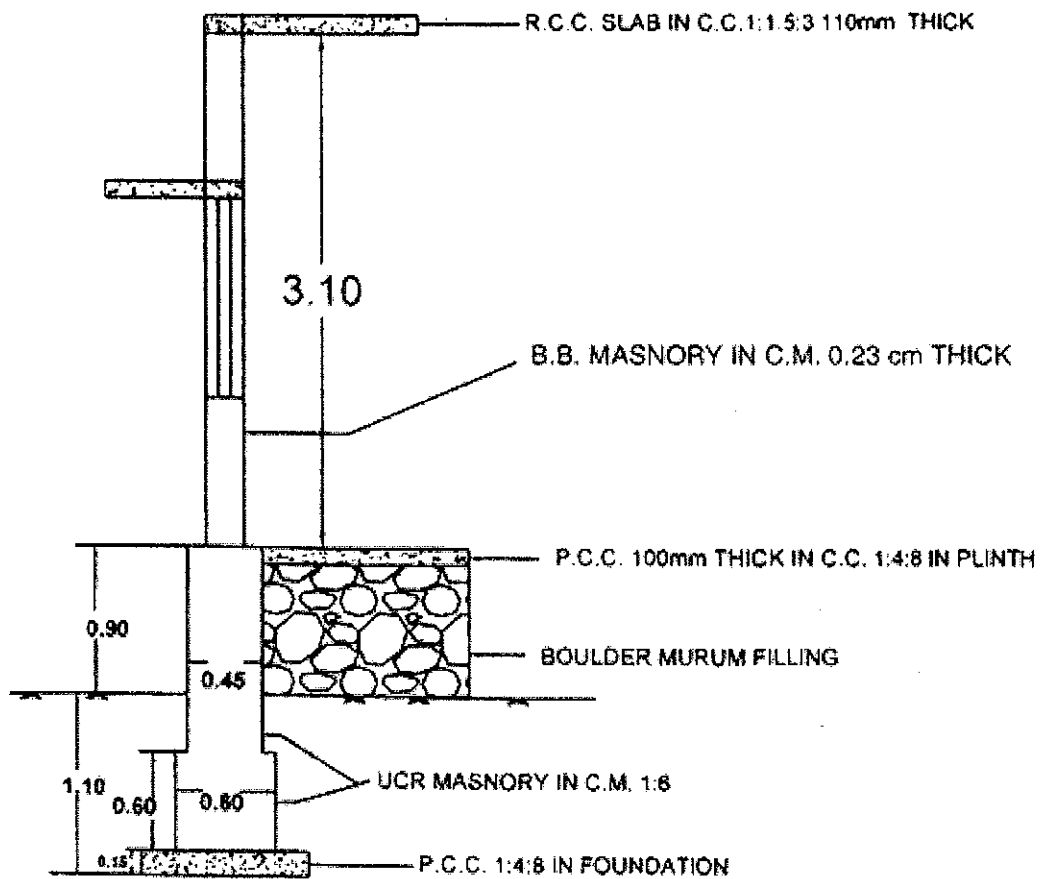


Fig. 2(b) : Elevation of the building

- Excavation for foundation
- P.C.C. 1:4:8 in foundation and plinth
- UCR masonry in CM 1 : 6 in foundation and plinth
- Brick masonry in C.M. 1:6
- R.C.C. slab in C.C. 1 : 1.5 : 3
- 20 mm thick cement plaster in C.M. 1:4

Use Long wall Short wall method

Q3. Calculate the quantity of earthwork for a road from the following data by using mean area/trapezoidal method. [5 Marks]

Formation width = 10 m

Slope of banking = 2 : 1

Slope in cutting = 1.5 : 1

Chainage	0	50	100	150
Ground level	498.00	497.90	497.10	496.40
Formation level	496.50	496.00	495.50	495.00

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