Estimating & Costing -1

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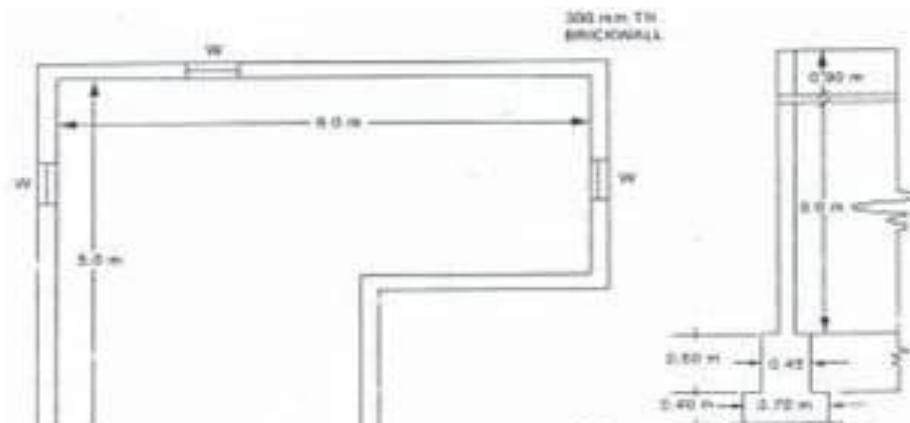## EXERCISE

Short Answer Questions

1. The internal dimensions of a single roomed building are 5.75x3.75m. Find the Centre line length of room and parapet. If the wall thickness of room and parapet are 300mm and 250mm respectively.

2. The internal dimensions of a room are 6.25 x 4.25m. find the quantity of sand filling in basemet. the height and thickness of basement are 750mm and 450mm respectively the wall thickness of room is 230mm.
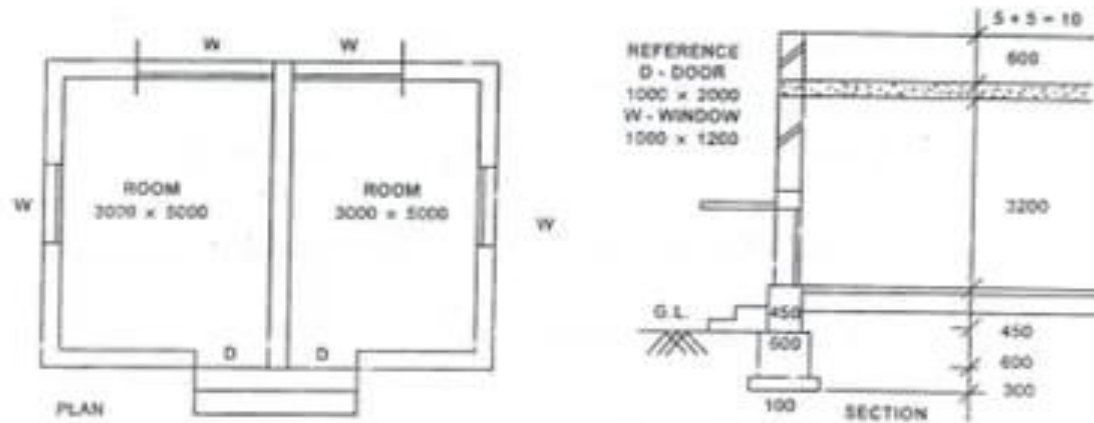
Essay Type Questions:

1. The plan and section of one roomed building

Detail & Abstract Estimates of Buildings

2) For a building drawing shown in figure calculate
    a) Brickwork in CM(1:6)in foundation footing.
    b) 12mm thick plastering the wall surfaces with CM (1:6) for all super structure walls by central line method.
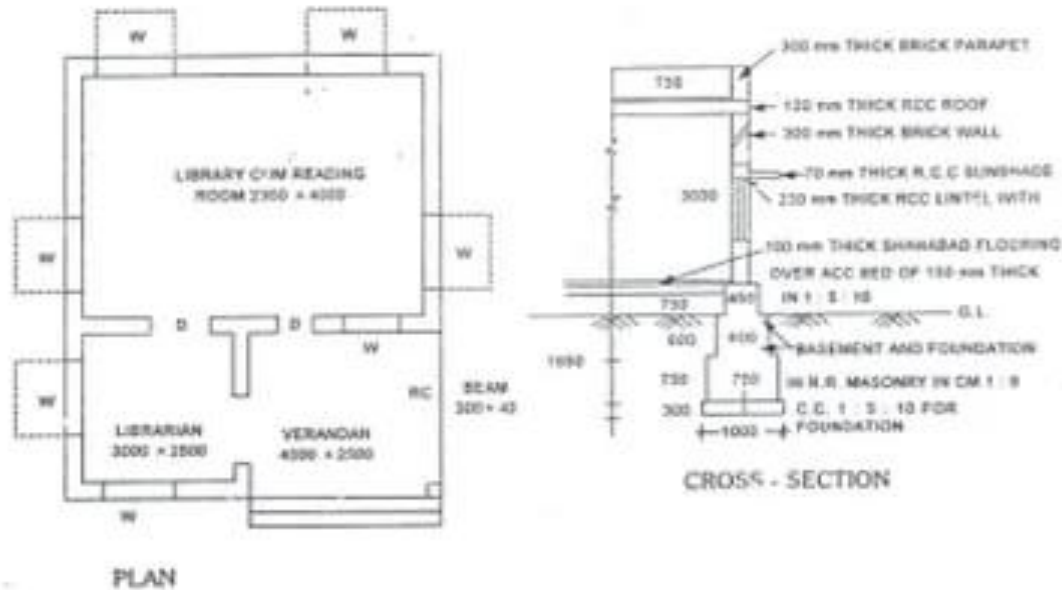   c) Earth work excavation for the foundation.

3) Repare the detailed estimate for the following items of work for the building shown in figure.
    a) R.C.C. (1:1.5:3) in columns upto ground level only.
    b) R.C.C. (1:2:4) in plinth Bleams
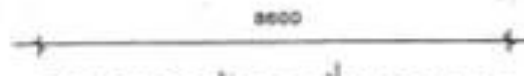   c) R.C.C. (1:2:4) in slab.

4) Prepare the detailed estimate for the following items of work for   a building shown .

    a)   R.R. masonry in CM 1:6 for footings and basement.

    b)   Brick work in CM 1:6 for super structure.
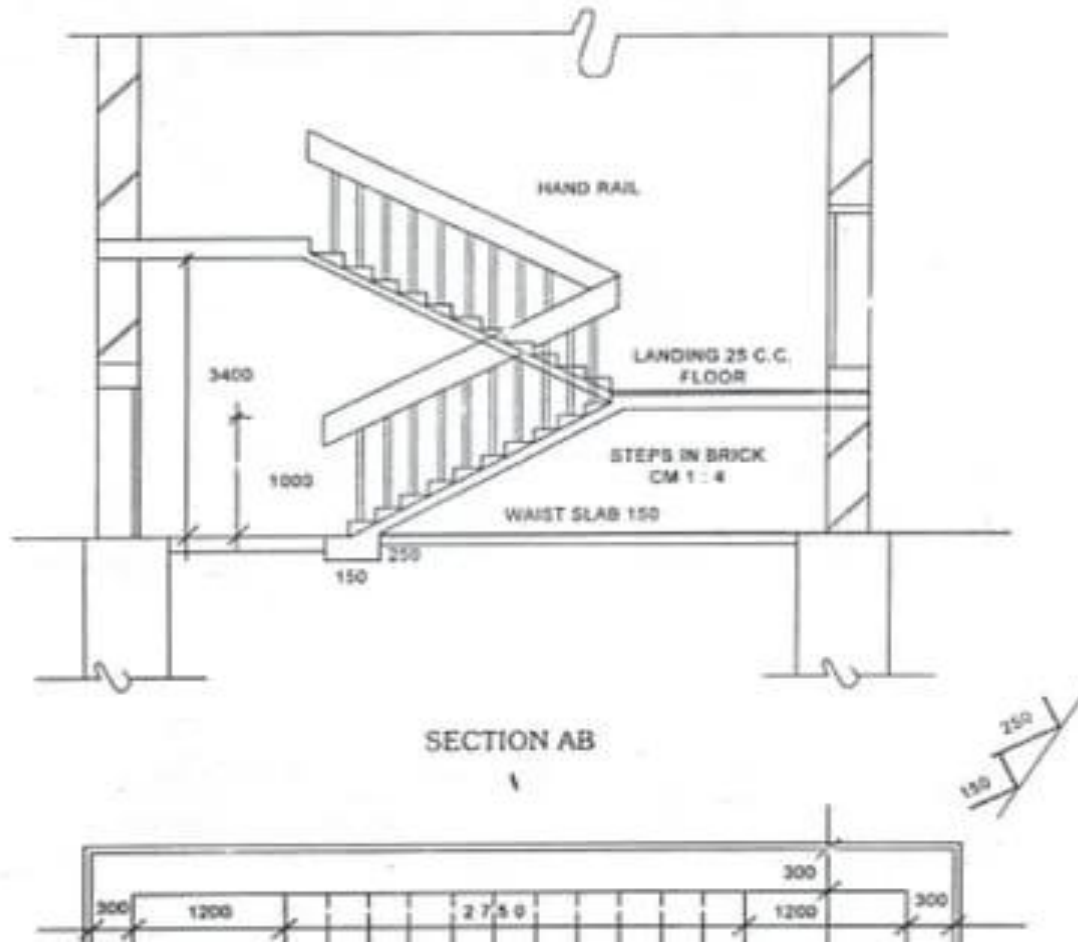
    c)   Plastering for ceiling with CM 1:3

PLAN

CROSS - SECTION

ALL DIMENSIONS IN 'mm'

5) From the Hipped roof shown in sketch, calculate

    a)   Length of Hip rafter

    b)   Ridge Piece

Detail & Abstract Estimates of Buildings

6) For an R.C.C. Stair case shown in fig. Calculate the following contents.

   a) R.C.C. (1:2:4) for base beam, waist slab, Top and intermediate landings.

   b) Brick work in CM(1:4) for steps.

HAND RAIL

LANDING 25 C.C. FLOOR

STEPS IN BRICK CM 1 : 4

WAIST SLAB 150

3400

1000

150

250

250

150

SECTION AB

300

300

1200

2750

1200

300

7) The section of steps at the front of a residential building is shown in fig. Calculate

a) Volume of BM in CM (1:5) for all three steps. the length of steps is 2.1m

b) Plastering with CM (1:4) for all three steps.