

COLLEGE OF ENGINEERING
(Formerly Government College of Engineering, Pune)

END-SEM EXAM: 2012-13: Semester II

(CE-409) Quantity Surveying & Valuation

B. Tech - CIVIL

Timing: 02.00 pm – 05.00 pm

Day & Date: Tuesday 23/04/13

Duration: 3.00 hrs

Max. Marks: 100

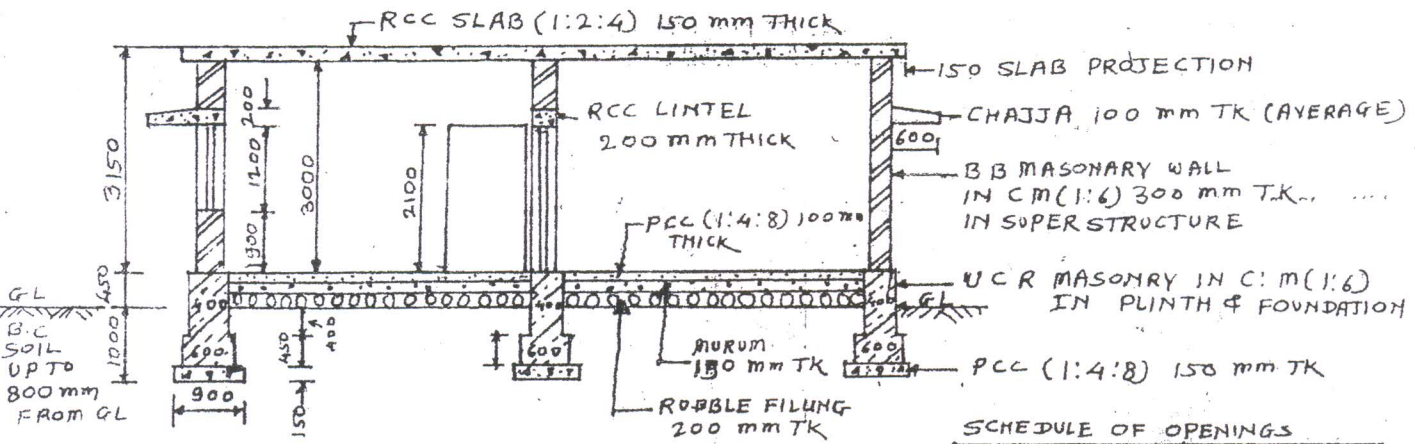
Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat diagrams wherever required.
4. Assume suitable data if required and mention it clearly.

- | | | Marks |
|-----|---|-------------|
| Q.1 | Figure no.1 shows the plan & section of a residential building. Take out the quantities for the following items and record the measurements in proper form.
i) Excavation for foundation
ii) RCC slab
iii) External plaster
iv) Marble mosaic flooring | (20) |
| Q.2 | A) Explain free hold and lease hold interests.
B) Calculate material required for preparing 10 cum of M15 concrete.
OR
B) Enlist labour requirement for plastering. | (4)
(4) |
| | C) An owner has constructed 8 flats on a plot of land measuring 600 sqm. The land was purchased for Rs. six lacs and the cost of construction including all its ancillary costs, electrification etc was Rs. thirty lacs. Eight flats are given on rent to Eight tenants, calculate standard rent for each flat per month assuming following:
i) Owner expects 8% return on cost of construction.
ii) Owner expects 5% Return on cost of land.
iii) Life of building is 75 years.
iv) Sinking fund to be created at 4% interest rate.
v) Annual repair and maintenance cost to be 1% of cost of construction.
vi) Other outgoings including taxes at 30% of net returns from the building.
Assume any other suitable additional data if required and mention it clearly. | (8) |
| Q.3 | A) What is depreciation? Explain various methods of depreciation.
B) What is outgoing? Explain usual types of outgoings.
OR
B) Explain various factors affecting cost of an item of work. | (10)
(6) |

- Q.4 A) Explain purpose of specifications and types of specifications. (6)
- B) Write in detail specification for **any one** of the following item.
- i) Specification for concrete 1:4:8.
 - ii) Specification for brick work first sort. (10)
- Q.5 A) Explain different types of contracts. (6)
- B) State information to be given in a tender notice. (5)
- C) What do you understand by free consent.
- OR**
- C) Explain essentials of a valid contract. (5)
- Q.6 Write short notes on **any four** of the following
- i) Various types of delays in a construction projects.
 - ii) Termination of contract
 - iii) Rules of deduction for plastering
 - iv) Various forms of lease
 - v) Contingencies and work charged establishment
 - vi) Provisional and prime cost items (16)

*_*_*_*_*_*_*_*



SECTIONAL ELEVATION A-A

SCHEDULE OF OPENINGS

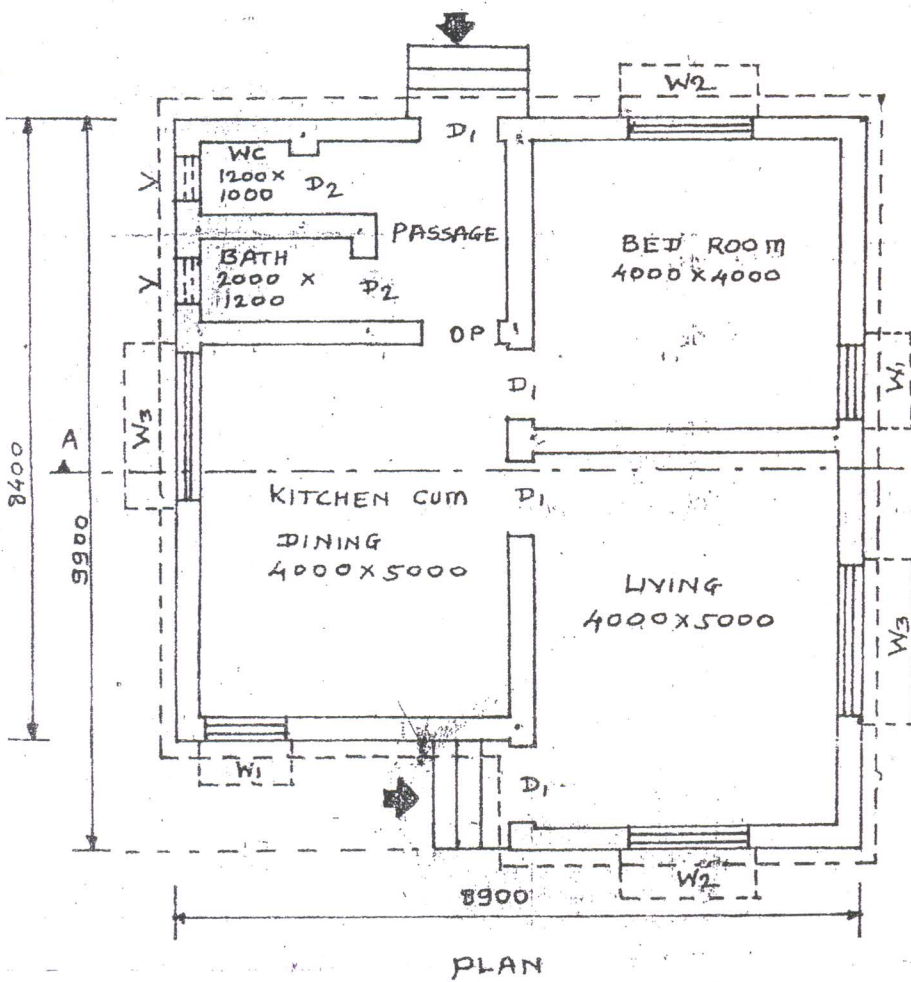
SY.	SIZE	DESCRIPTION
W ₁	1000 X 1200	STEEL WINDOW
W ₂	1500 X 1200	" "
W ₃	2000 X 1200	" "
V	600 X 600	LOOYERED
D ₁	1000 X 2100	CCTW FULLY PANNELED
D ₂	800 X 2100	
OP	1000 X 2100	OPENING

NOTES

- HARD MURUM IS AVAILABLE AT 0.8 M DEPTH FROM GL
- MARBLE MOSAIC FLOORING IN ALL ROOMS & PASSAGE
- WHITE GLAZED TILES FOR FLOORING AND DADO IN WC & BATH
- B.B. MASONRY FOR STEPS. TREAD = 300 mm, RISE = 150 mm
- 15 mm THICK SANDFACED CEMENT PLASTER IN C.M. (1:4) PROVIDED TO ALL EXTERNAL SURFACES OF BRICK MASONRY.
- 100 mm THICK RCC SLAB (1:2:4) IS PROVIDED OVER WC & BATH AT 2100 mm HEIGHT FROM FLOOR LEVEL

SCALE 1 CM = 1.0 M

ALL DIMENSIONS ARE IN MM



PLAN