

**T. Y. B.ARCH. SEM – VI (2010 COURSE) : WINTER - 2018**  
**SUBJECT : QUANTITY SURVEYING & SPECIFICATION WRITING**

Day : Saturday  
Date : 24/11/2018

**W-2018-3466**

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 100

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non programmable **CALCULATOR** is allowed.
- 4) Draw neat and labeled diagram **WHEREVER** necessary.
- 5) Answers to both the sections should be written in **SEPARATE** answer books.
- 6) Assume suitable data **WHEREVER** necessary.

**SECTION – I**

- Q.1** Work out quantities of **ANY FIVE** of the following items of work based on [35]  
accompanying diagram.
- a) RCC columns below plinth.
  - b) One Brick thick external walls.
  - c) Internal plaster for bed – 2.
  - d) M.S. Windows and Ventilators.
  - e) RCC weathersheds (assuming projection as 60cm and bearing of 7.5cm on both sides).
  - f) RCC slab.
  - g) Cement mosaic tile flooring in rooms and passages.

- Q.2** Write brief specifications as it is written in Abstract sheets with inclusions and [10]  
exclusions of **ANY TWO** of the following mentioning units of measurement.
- a) Excavation      b) PCC subfloor base      c) M.S.Windows.

- Q.3** Write note on IS:1200 mode of measurement. [05]

**OR**

Write note on types of preliminary estimates.

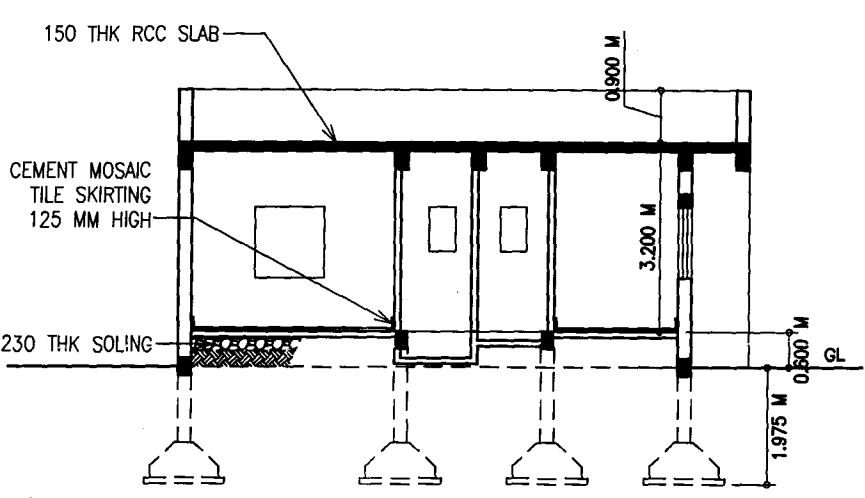
**SECTION – II**

- Q.4** Analyse rate **ANY THREE** of following items of works using the rates given [15]  
below:
- a) Half brick thick wall.
  - b) RCC 1:2:4 for columns excluding reinforcement.
  - c) External plaster in cm 18mm thick.
  - d) Murum filling in plinth.

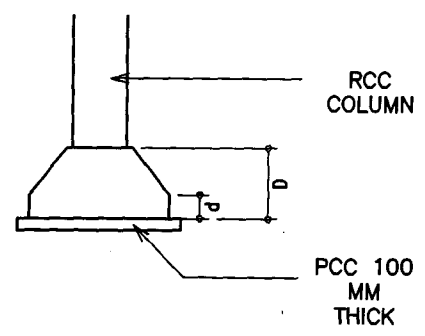
Rates of materials		Rates of labour	
Cement	Rs. 280 / bag	Half brick thick wall	Rs. 120/m <sup>2</sup>
Sand	Rs. 3000/m <sup>3</sup>	R.C.C. 1:2:4 columns	Rs. 5250/m <sup>3</sup>
Aggregate	Rs. 875/m <sup>3</sup>	External plaster	Rs. 150/m <sup>3</sup>
Bricks	Rs. 6/ no.	Murum filling	Rs. 250/m <sup>3</sup>
Murum	Rs. 350/m <sup>3</sup>		

- Q.5** Write detailed work specification **ANY TWO** of the following: [20]
- a) RCC footing
  - b) One brick thick wall
  - c) M.S. Windows

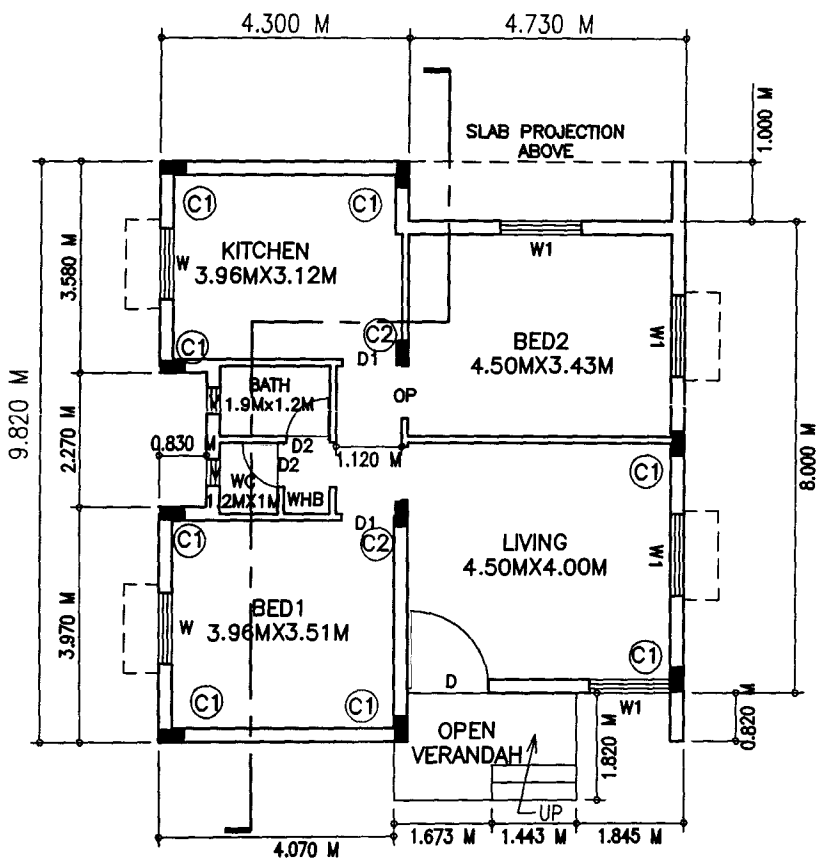
- Q.6** Write notes on **ANY THREE** of the following: [15]
- a) Bill of quantities and schedule of rates
  - b) Types of specifications
  - c) Contingencies
  - d) Overheads



SECTION



TYPICAL COLUMN & FOOTING SKETCH



GROUND FLOOR PLAN

COLUMN SCHEDULE

COLUMN MARKED	COLUMN SIZE IN MM	FOOTING SIZE IN MM	D MM	d MM
C1	230X460	1200X1200	600	200
C2	230X460	1400X1400	750	200

DOOR SCHEDULE

D=1.35MX2.10M  
 D1=0.90MX2.10M  
 D2=0.75MX2.10M

MS WINDOW SCHEDULE

W=1.20MX1.20M  
 W1=1.34MX1.20M  
 V=0.60MX0.75M

BEAMS SCHEDULE

ALL FLOOR BEAMS 230X460 CROSS SECTION SIZE  
 ALL PLINTH BEAMS 230X300 CROSS SECTION SIZE

SPECIFICATIONS

EXT WALL 230 THK BBM  
 INT WALL 110 THK BBM