

T. Y. B.ARCH. SEM – VI (2010 COURSE) : SUMMER - 2018
SUBJECT: QUANTITY SURVEYING AND SPECIFICATIONS WRITING

Day: **Saturday**
Date: **05/05/2018**

S-2018-3326

Time: **02.00 PM TO 05.00 PM**
Max. Marks: 100

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answer to both sections should be written in **SEPARATE** answer books.
 - 4) Assume suitable data **WHEREVER** necessary.
 - 5) Use of calculator/ logarithmic table is allowed.
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SECTION-I

Q.1 Work out quantities of following items of work based on the details given in (30)
accompanying diagram [**ANY FIVE**]:

- a) PCC foundation bed
- b) PCC subfloor base
- c) RCC floor beams
- d) MS windows and ventilators
- e) Ceramic tile flooring in bath and w.c.
- f) RCC weather sheds 75mm thick
- g) RCC lintels size 230mm x 300mm over openings in external walls

Q.2 Describe the following items of work as described in “bill of quantities” and (10)
state Unit of measurement. [**ANY TWO**]:

- a) TW door
- b) RCC footing
- c) Internal plaster
- d) IPS waterproofing

Q.3 Write notes on following [**ANY TWO**]: (10)

- a) Types of preliminary estimates
- b) Bill of quantities
- c) Overheads
- d) Contingencies

P.T.O.

SECTION-II

- Q. 4** Analyze the rates for following items of work [ANY TWO] (20)
- a) Concrete 1:4:8
 - b) Brickwork 115mm thick in cm 1:6
 - c) Vitrified tile flooring

Material Rates

Cement = Rs. 350 per bag

Sand = Rs. 3000 per cum

Aggregate = Rs. 2200 per cum

Bricks = Rs. 8 per number

Vitrified tile = Rs 1000 persqm

MS steel = Rs 45 per Kg.

Labour Rates

Labour for flooring Rs. 350 per sqm.

Labor for concrete= Rs 500 per cum

Labor for brickwork= Rs 350 per cum

Labor for concrete= Rs 500 per cum

- Q. 5** What are the principles of specification writing? Discuss legal aspects of specifications. (10)

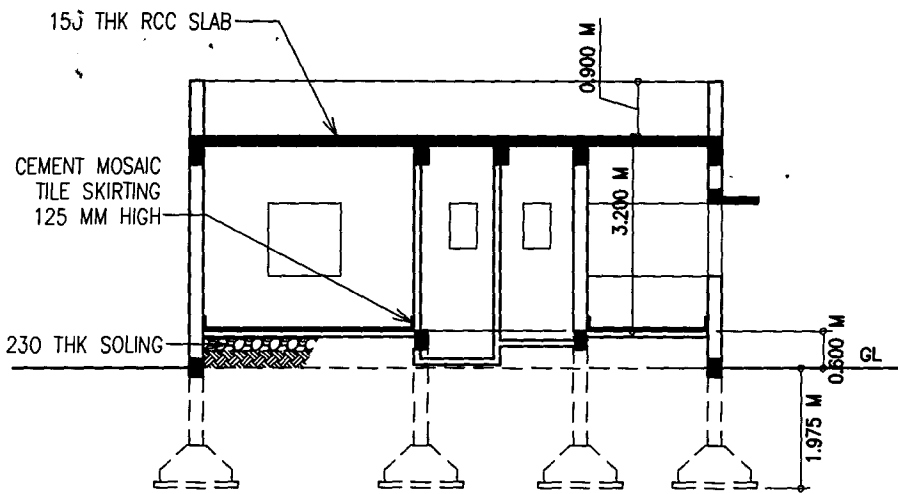
OR

Explain Relation between specification writing and working drawing with any three specifications as example. (10)

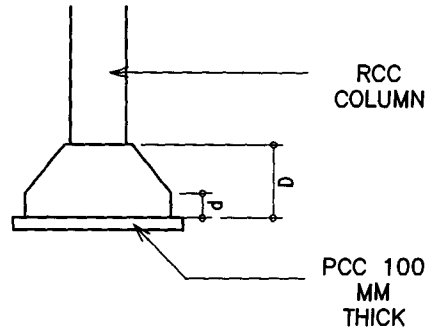
- Q.6** Write material specifications for following [ANY TWO]: (10)
- a) Cement
 - b) Reinforcement steel
 - c) Glass
 - d) Coarse aggregate

- Q. 7** Write specifications for workmanship for following items [ANY TWO]: (10)
- a) Excavation in murrum
 - b) Cement point on plastered wall surface
 - c) R.C.C footing
 - d) Cavity brick wall

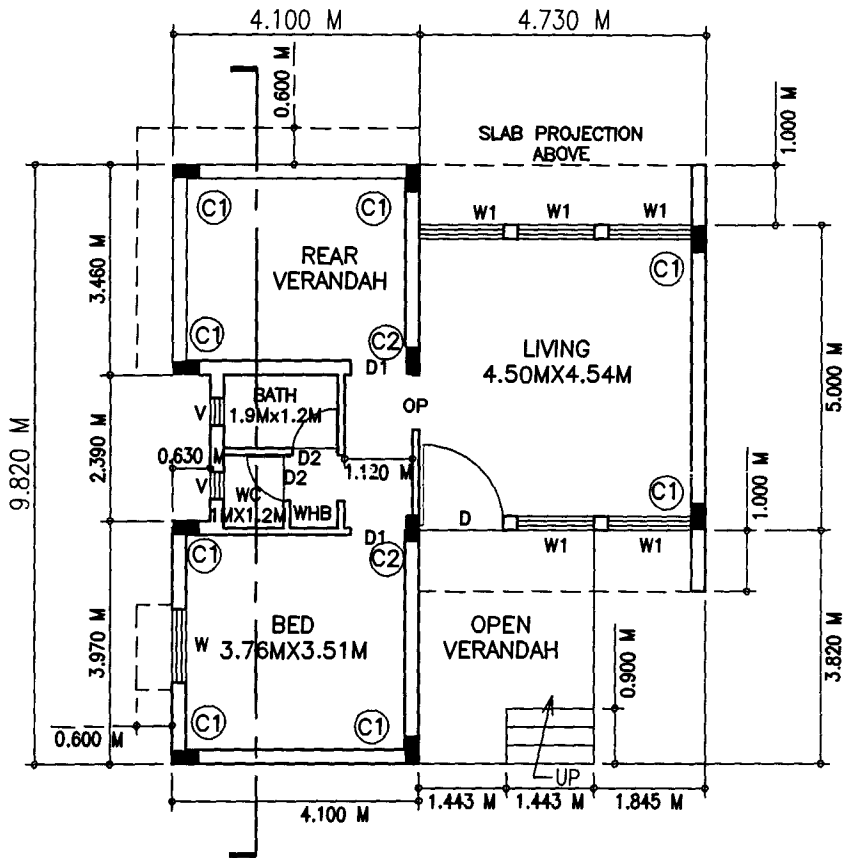
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SECTION



TYPICAL COLUMN & FOOTING SKETCH



GROUND FLOOR PLAN

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

SPECIFICATIONS

EXT WALL 230 THK BBM
 INT WALL 110 THK BBM

BEAMS SCHEDULE

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

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