MANOHARGAD-VI (2010 COURSE: WINTER - 2015 SUBJECT: QUANTITY SURVEYING & SPECIFICATION WRITING

Day: Friday Date: 20-11-2015 Time: 2:00 P.M. To 5:00 P.M.

Max. Marks: 100

N.B.:

- All questions are COMPULSORY. 1)
- Figures to the right indicate full marks. 2)
- Both the sections should be written in SEPARATE answer book. 3)
- Assume data if necessary. 4)

SECTION-I

- Work out the quantities for the following items of work based on the details [30] 0.1 given in accompanying diagram (ANY FIVE)
 - 230mm brick work (guest room only)
 - Cemaic tile dado and flooring (for toilets) b
 - Internal plaster for walls and ceiling (guest room only) C
 - W.H.B. d
 - Vitrified tile flooring and skirting for lobby
 - R.C.C. lintel for widows
 - R.C.C. columns M20 in ground floor g

Footing size 1200mmx1200mm, D=450mm, d= 200mm

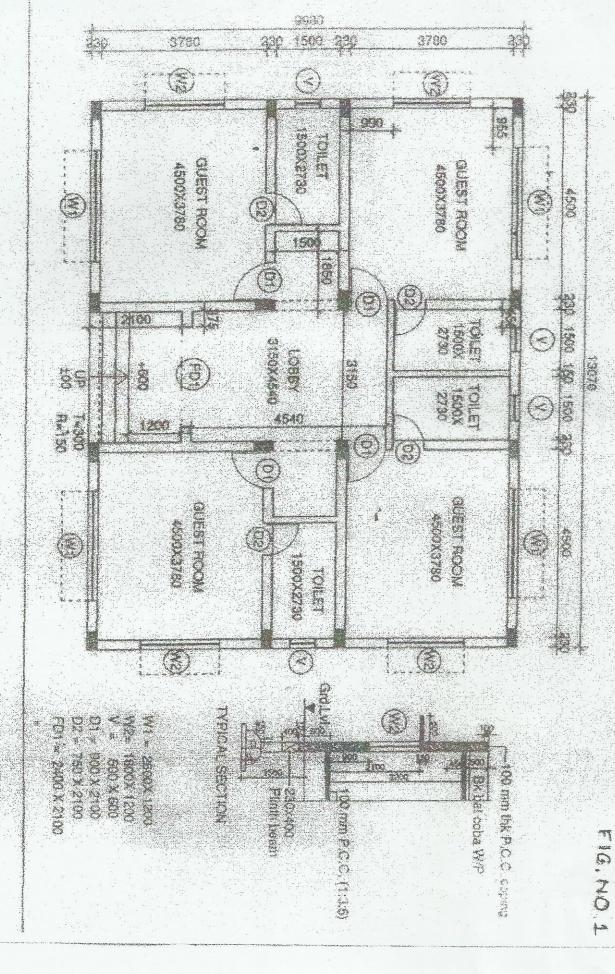
Bearing of lintels 300mm RCC slab thickness 130mm Internal brick wall 150mm

- External brick wall 230mm
- State the Unit of measurement (as per IS:1200) for the following items of work [10] Q.2
 - R.C.C slab
 - Excavation in hard murum
 - 230mm thk brick wall
 - Melamine polish to T.W. door
 - Flush door e
 - M.S. railing
 - Steel for trust g
 - R.C.C chajja h R.C.C lintel
 - PVC pipe drainage
 - I.C chamber k
 - Stop cock
- Write short Notes on (Any TWO) Q.3

[10]

- Indent of materials a
- Profit and overheads b
- Contractors interim certificate
- Rules for deducting plaster d

		C 1 (Apr. TWO)	[10]
Q.4		Work out analysis of rates for the following items of work (1217)	[10]
2.	a	220th brick masonry in cm 1:0	
	b	External cement plaster cm 1:4 sand face infish	
	c	R.C.C beams (1:2:4)	
	d	PCC in foundation 1:3:6	
		Data: Materials	
		Cement: Rs. 300 per bag	
		Sand: Rs 2000 per cum	
		Bricks: Rs 7 each	
		Aggregate: Rs 1200 per cum	
		Data: Labour	
		Beam Rs. 700 per cum	
		Brickwork: Rs. 500 per cum	
		External Plastering: Rs 120 per sqm	
		PCC (1:4:8): Rs 700 per cum	
		SECTION-II	
~ #		What is the role of specification in quality control of construction? Explain by	[10]
Q.5		giving examples of at least one item of construction.	
		giving examples of at least one restrict	
01		Write detailed specifications for the following items	[10]
Q.6		T.W. frames for doors	
	a	Coarse aggregate for concrete	
	b	Kotah stone for flooring	
	C	Water for construction work	
	d	water for construction work	
0 =		Write brief specifications as mentioned in BOQ (Any TWO)	[10]
Q.7		Rough Shahabad for flooring	
	a	P.C.C. for footing	
	b		
	c	Clearing of the site	
	d	External plaster work	
0.0		Specify following materials by trade/Manufacturer's names (Any TEN)	[10]
Q.8		Specify following materials by transfer of	
	a		
	b	C1 C leave	
	C		
	d	7.6	
	e	Mirror	
	f	THE STATE OF THE S	
	9	WHB	
	h	하고 보고 있다면 하는 중요 한 것이 돼. 그 이렇게 되면 보고 있다면 하는데 보고 있다면 하는데 보고 있다면 하는데 하는데 되었다면 하는데 되었다면 하는데 되었다.	
	i	Ottorint	
	j		
	1		
		Structural steel	



MANOHARGAD - VI (2010 COURSE): SUMMER - 2016 SUBJECT: QUANTITY SURVEYING & SPECIFICATION WRITING

Monday 02-05-2016 Date

Time: 10:00AM. TO1:00 P.M.

Max. Marks: 100

N.B.:

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

SECTION - I

- Work out quantities of ANY FIVE of the following items of work based on [35] Q.1 accompanying diagram.
 - a) RCC footing.
 - b) Glazed tile dado in bathroom and W.C (assume dado height to be 2.1m).
 - c) Flooring in living, kitchen, bed and passage.
 - d) Mass brick work for steps.
 - e) Internal plastering for living- ceiling and walls only.
 - f) Teakwood doors.
 - g) 110 mm thick internal brick work.
- Explain any two types of preliminary estimates. Q.2

[10]

Explain IS:1200. State its importance. Q.3

[05]

OR

Explain mode of measurement of RCC columns mentioning unit of measurement.

SECTION - II

- Analyse rates of ANY THREE of the following items of works using the basic [15] Q.4 rates given below:
 - a) External sand face cement plaster in cm 1:4 18mm thick.
 - b) RCC (1:2:4) slab 14cm thick excluding reinforcement.
 - c) 23 cm thick B.B.M. in cm 1:6.
 - d) U.C.R. masonry in cm 1:6.

Datas o	f materials	Rates of labour	
	Rs. 280 / bag	External plaster	Rs. 150/m ²
Cement	$\frac{\text{Rs. } 200 / \text{ bag}}{\text{Rs. } 3000 / \text{ m}^3}$	23cm thick B.B.M.	Rs. 650/m ³
Sand	Rs. 875/m ³	ULR masonry	Rs. 700/m ³
Aggregate	Rs. 6/ no.	RCC slab	Rs. 7800/m ³
Bricks		TOO DIEG	
Rubble	Rs. 875/m ³		

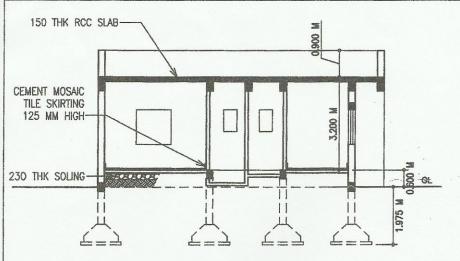
Write detailed work specification of ANY TWO of the following: 0.5

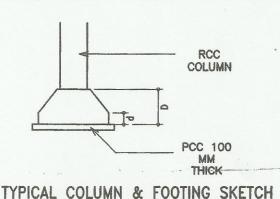
[20]

- a) Excavation in soft murum.
- b) PCC subfloor bed.
- c) Internal plaster with neeru finish.
- Write notes on ANY THREE of the following: Q.6

[15]

- a) Contingencies
- b) Overheads
- c) Open and closed specifications
- Importance of specifications in contact document





COLUMN SCHEDULE

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

4.100 M 4.730 M SLAB PROJECTION ABOVE

SECTION

1.000 (C1) (C1) W1 W1 KITCHEN (C1) 3.76MX3.12M 3.580 C2 LIVING 5.000 4.50MX4.54M BATH 1.9Mx1.2M OP 9.820 2.270 0,630 D2 D2 1.120 M WC WHB (01) 000 W1 W1 W 3.76MX3.51M OPEN 3.970 VERANDAH 0.900 (1) (C1) 1.443 M 1.443 M 1.845 M

GROUND FLOOR PLAN

4.100 M

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