

C.U. SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Professional Practice & Valuation

Subject Code: 4TE07PPV1

Branch: B.Tech (Civil)

Semester: 7

Date: 23/03/2017

Time: 02:30 To 05:30

Marks: 70

Instructions

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1	Attempt the following questions:	(14)
	a) What is task work?	1
	b) What is specification?	1
	c) What is Liquidated damage?	1
	d) What is the per meter weight of 12 mm diameter steel bar?	1
	e) Give service unit for water tank.	1
	f) Define term price.	1
	g) Give measurement unit for dado.	1
	h) Give current market rate for aggregate.	1
	i) Define rate analysis.	1
	j) Define contract.	1
	k) What is tender?	1
	l) Define valuation.	1
	m) What is depreciation?	1
	n) What are the data required for preparing an estimate.	1

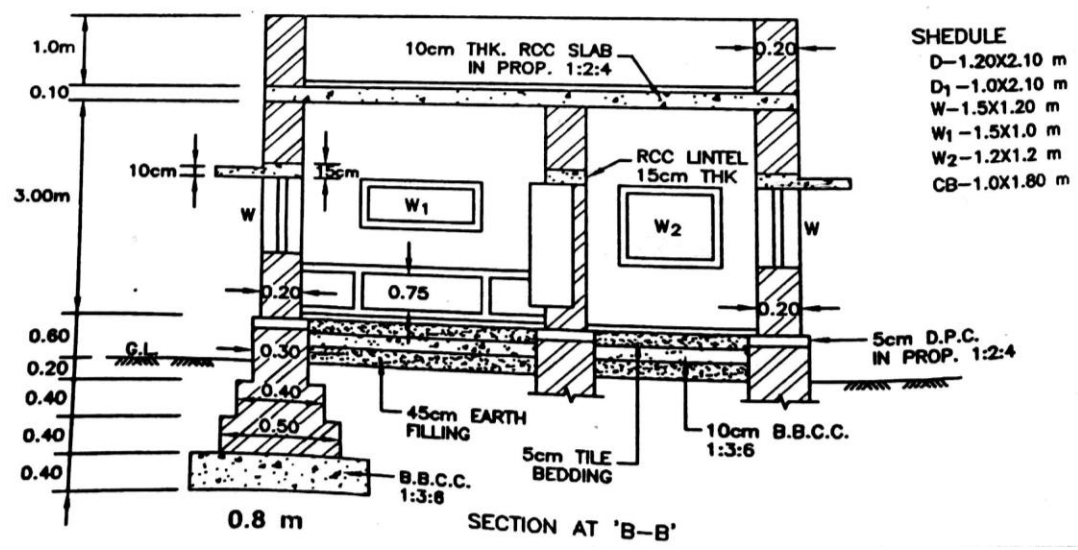
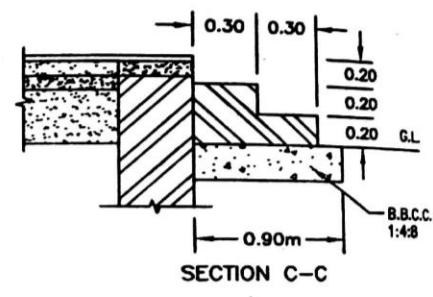
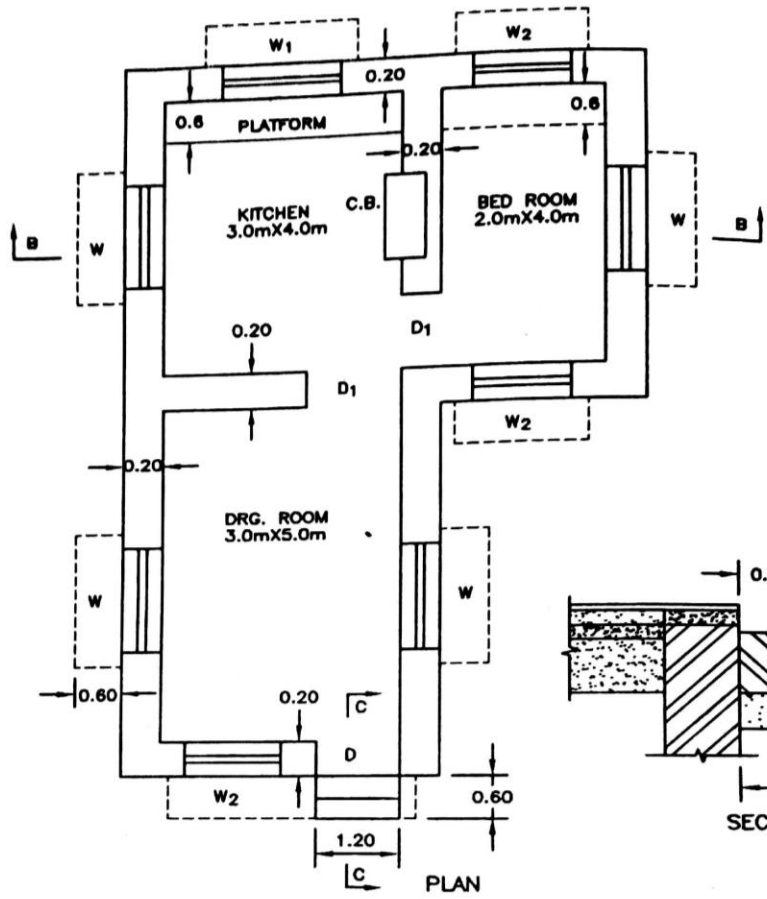
Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
	(a) Write detailed specifications for excavation in foundation.	(7)
	(b) Draft a typical tender notice for the construction of your own house.	(7)
Q-3	Attempt all questions	(14)
	(a) Differentiate between: 1) Depreciation and obsolescence. 2) Free hold property and lease hold property.	(7)
	(b) From the following details find out the rent of a property.	(7)
	(i) Cost of land = Rs 6,50,000	
	(ii) Cost of construction = Rs 8,00,000	
	(iii) Expected return on investment = 10 %	
	(iv) Interest rate for sinking fund = 6%	
	(v) Maintenance = Rs 10,000 per year	
	(vi) Other outgoings = 25 % of gross rent	
	(vii) Expected life of the building = 60 years	



- Q-4** **Attempt all questions** **(14)**
- (a)** Calculate the following: **(7)**
- 1) No. of bricks required for 1cu.m. brick work.
- 2) Material for 100 m², 1:3, 20 mm thick plaster
- (b)** Enlist and explain different methods of valuation. **(7)**
- Q-5** **Attempt all questions** **(14)**
- (a)** List various hoisting equipments and explain mobile crane. **(7)**
- (b)** Write detailed specifications for plain cement concrete (1:2:4) **(7)**
- Q-6** **Attempt all questions** **(14)**
- (a)** What is the significance of market survey in civil engineering? How the rate of an item is derived by method of rate analysis? **(7)**
- (b)** Find the rate of 1st class brickwork (nominal size 20×10×10)cm in cement mortar 1:6 per cu. m. by rate analysis. Assume suitable rates of material and labor. **(7)**
- Q-7** **Attempt all questions** **(14)**
- (a)** What is the use of muster roll? What are the rules to be observed in its preparation? **(7)**
- (b)** List and explain the factors that affect rate analysis. **(7)**
- Q-8** **Attempt all questions** **(14)**
- (a)** The Plan of a residential building is shown in Figure- Calculate quantity of following items in a quantity sheet. Adopt suitable brief specifications. **(14)**
- (i) Excavation in foundation
- (ii) B.B.C.C. (1:3:6) in foundation.
- (iii) First class brick work in foundation and plinth in cement mortar 1:6
- (iv) 5 cm thick Damp proof course.
- (v) Earth filling in Plinth.





- SCHEDULE**
- D-1.20X2.10 m
 - D₁-1.0X2.10 m
 - W-1.5X1.20 m
 - W₁-1.5X1.0 m
 - W₂-1.2X1.2 m
 - CB-1.0X1.80 m

