

C.U. SHAH UNIVERSITY

Summer Examination-2018

Subject Name: Professional Practice & Valuation**Subject Code: 4TE07PPV1****Branch: B.Tech (Civil)****Semester: 7****Date: 22/03/2018****Time: 10:30 To 01:30****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 size of standard gauge box (Farma) for mixing sand and aggregate?	1
	b) Give current market rate for steel.	1
	c) What is the volume of 1 bag of cement?	1
	d) What is specification?	1
	e) What are the data required for preparing an estimate?	1
	f) What is the service unit for college?	1
	g) What is length of hook provided at the end of bar?	1
	h) In center line method how net center line length is calculated?	1
	i) Define rate analysis.	1
	j) Define contract.	1
	k) What is liquidated damage?	1
	l) Define is valuation.	1
	m) Define Obsolescence.	1
	n) List methods of calculating depreciation.	1

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

Q-2	Attempt all questions	(14)
	(a) Give the principles of writing specification.	7
	(b) Calculate the following:	7
	(a) No. of bricks required for 1 cu.m. brickwork.	
	(b) No. of cement bags for 1 cu.m. brickwork in cement mortar 1:4.	
	(c) Quantity of sand for 1 cu.m. PCC in cement mortar 1:1.5:3.	
Q-3	Attempt all questions	(14)
	(a) Draft a typical tender notice for civil engineering work.	7
	(b) From the following details, calculate net monthly standard rent.	7

Land cost = Rs. 7,00,000

Construction cost = Rs. 4,00,000

Life of building = 60 years



Rate of sinking fund = 3%

Other outgoings = 25% of gross rent

Scrap value = Rs. 50,000

Expected net return is 10% on construction cost and 6% on land cost.

- Q-4** **Attempt all questions** **(14)**
- (a) Carry out the rate analysis for R.C.C work 1:1.5:3 for beam and column in 10 m^3 . **7**
- (b) Write detailed specification for the first-class brick work in C.M (1:6) **7**
- Q-5** **Attempt all questions** **(14)**
- (a) What is tender? Explain different types of tenders. **7**
- (b) Define contract. List different types of contract and explain percent rate contract. **7**
- Q-6** **Attempt all questions** **(14)**
- (a) From the following details decide value of the cinema theatre building. **7**
- (1) Present land cost = Rs. 2,15,890
- (2) Future life of building = 10 years
- (3) Use at full capacity = 57.54%
- (4) There are 4 shows every day for 365 days.
- (5) Income of each shows at full capacity = Rs. 6000
- (6) Total usual outgoings = 70% of gross income.
- (7) Rate of interest @ 12% on capital and @ 8% on redemption of capital.
- (b) Write differences between freehold property and Leasehold property. **7**
- Q-7** **Attempt all questions** **(14)**
- (a) List the factors affecting selection of construction equipment **7**
- (b) Adopt suitable rates and prepare abstract sheet for the items calculated in question 8 below. Also list the factors affecting the rate of items at any place. **7**
- Q-8** **14**
- The plan of a residential building is shown in fig. below. Calculate quantity of following items in a quantity sheet. Adopt suitable brief specification. (Use center line method)
1. Excavation in foundation.
 2. Brick Bat Cement Concrete (B.B.C.C) in foundation in 1:4:8.
 3. Brickwork in foundation.
 4. Brickwork in superstructure in mortar 1:4.
 5. R.C.C work in slab, chhajja and lintel (bearing 15 cm)



