

C.U. SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Professional Practice & Valuation

Subject Code: 4TE07PPV1

Branch: B.Tech (Civil)

Semester: 7

Date: 29/11/2018

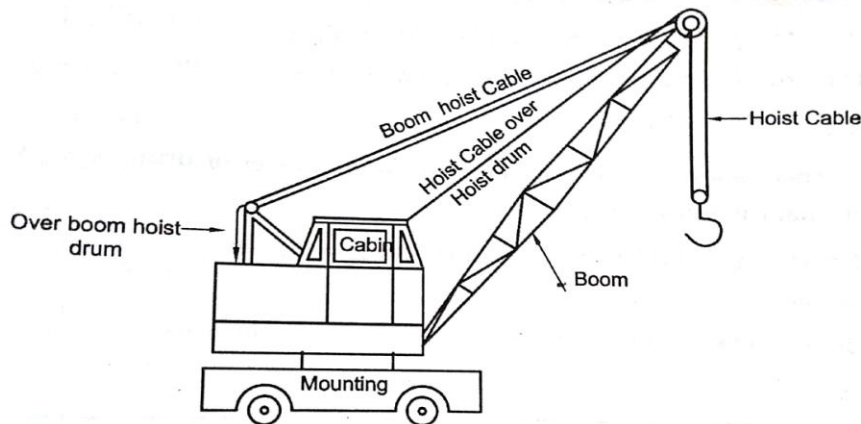
Time: 10:30 To 01:30

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 piece work agreement? 1
 - b) What is specification? 1
 - c) Define Depreciation. 1
 - d) Give service unit for water tank. 1
 - e) What is out-turn work? 1
 - f) Tabulate the general format for measurement sheet and abstract sheet. 1
 - g) General rule for measurement is based on IS..... 1
 - h) Define contract. 1
 - i) What are the data required for preparing estimate? 1
 - j) What is valuation? 1
 - k) How many cement bags required for 1 m³ brickwork (1:6) 1
 - l) Define barter system. 1
 - m) Define SOR. 1
 - n) Name the hoisting equipment as shown in fig. 1



- Q-2 Attempt any four questions from Q-2 to Q-8 Attempt all questions (14)**
- (a) From the following details find out the rent of a property. (7)
- 1) Cost of land = Rs. 6,50,000
 - 2) Cost of construction = Rs. 8,00,000
 - 3) Expected return on investment = 10%



- 4) Interest rate for sinking fund = 6%
- 5) Maintenance = Rs. 10,000 per year
- 6) Other outgoings = 25% of gross rent
- 7) Expected life of the building = 60 years

(b) Write detailed specification for reinforced cement concrete. (7)

Q-3

Attempt all questions (14)

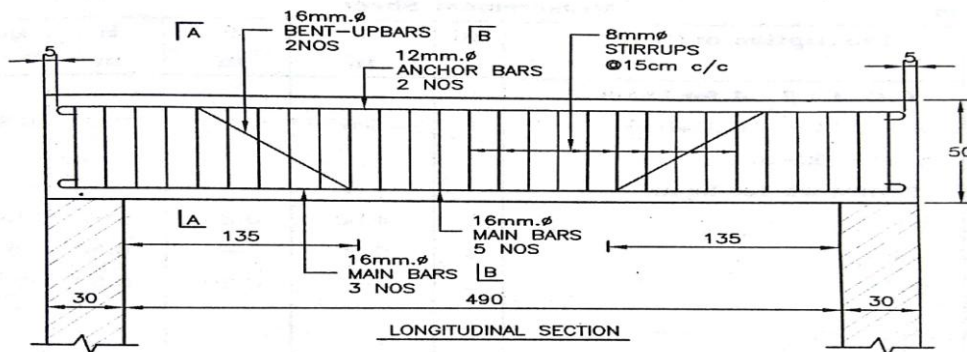
(a) Explain in brief (1) Open Tender (2) Sealed tender (7)

(b) Enlist and explain different methods of valuation. (7)

Q-4

Attempt all questions (14)

(a) Figure shows the details of an R.C.C beam. Calculate the quantities of reinforcement steel for beam in kg. (7)



(b) Give the principles of writing specifications. (7)

Q-5

Attempt all questions (14)

(a) Explain different types of engineering contracts. (7)

(b) Explain cement concrete - Batch mixing plant. (7)

Q-6

Attempt all questions (14)

(a) Define 'tender' and draft a typical tender notice for Civil Engineering work. (7)

(b) Calculate the material required for 100 m², 1:3, 20 mm thick plaster. (3)

(c) Differentiate between: Free-hold property and Lease-hold property (4)

Q-7

Attempt all questions (14)

(a) Give rate analysis of first-class brickwork in superstructure in c.m. 1:6. (7)

(b) Give different types of values and explain any one in detail. (7)

Q-8

Attempt all questions (14)

(a) Calculate the following quantities of the residential building which is shown in Fig. (Using Center line method) (14)

(i) Excavation in foundation

(ii) Plain Cement Concrete in foundation (1:4:8)

(iii) First class brick work in foundation and plinth in cement mortar 1:6

(iv) Earth filling

(v) Inside plaster



