

Seat No.: _____

Enrollment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ARCHITECTURE – SEMESTER - V • EXAMINATION – SUMMER 2018

Subject Code: 3356206

Date: 03/05/2018

Subject Name: Estimating & Costing

Time: 02:30 to 04:30 PM

Total Marks: 50

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of only simple calculator is permitted in Mathematics.

- Q.1 (a)** From the given dimensions of building draw plan and section and estimate the following quantities: **20**
ROOM 1 : 3 m x 5 m
ROOM 2 : 5 m x 5 m
DOOR D: 1.2 m x 2.1 m (02 nos)
WINDOWS W: 0.9 m x 1.0 m (04 nos)

1) Earth work for excavation, 2) PCC for foundation , 3) IInd class masonry in foundation up to plinth, 4) D.P.C, 5) Ist class brickwork for super structure.

- (b) Prepare abstract sheet for above example. **05**
- Q.2 (a)** What are the data required for preparing estimate? **05**
(b) Discuss various types of approximate estimate. Explain service unit method. **05**
- OR**
- (b) Write the types of detailed estimate and explain any three. **05**

- Q.3 (a)** Write short note on (i) Day work, (ii) Contingencies **05**
(b) Define specifications? Write the objective of writing specifications. **05**
(c) Write specification for earthwork in excavation for foundation. **05**

OR

- Q.3 (a)** Explain Schedule Of Rates **05**
(b) Find the rate analysis for cement concrete (1:4:8) in foundation and floor with stone ballast 40 mm gauge. Take 10 cum quantity. **05**
(c) What are the types of contracts? Describe anyone type, with its advantages and disadvantages. **05**