

4E4116

Roll No. _____

Total No. of Pages : 4

4E4116

B. Tech. IV-Sem. (Main / Back) Exam; April-May 2017

Civil Engineering

4CE6A Quantity Surveying & Valuation

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 26

Instructions to Candidates :-

Attempt any five questions, selecting one question from each unit. All Questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used / calculated must be stated clearly.

Use of following supporting materials is permitted during examination.

(Mentioned in form No. 205)

1. NIL2. NIL

UNIT - I

1 (a) Enumerate different types of estimates and explain each in detail.

8

(b) Explain the general rules for measurement of works. State unit of measurement for following item of works :

(i) Damp Proof Course (D.P.C)

(ii) Skirting

(iii) R.C.C. lintels

(iv) Rain water pipes.

4+4 = 8

OR

4E4116]

1

[P.T.O.

- 1 (a) What are measurement sheets and abstract sheets ? What are bills of quantities ? Explain Schedule A and Schedule B. 8
- (b) Enumerate in chronological order various major items of works carried out during construction of a building. 8

UNIT - II

- 2 (a) Discuss various factors affecting the rate analysis in detail. 8
- (b) Analyze the rate for the work "2.5 cm cement concrete floor 1:2:4". Assume suitable rates of material and labour. 8

OR

- 2 (a) Differentiate the freehold and leasehold properties. 4
- (b) Define the term tender and its important features. 4
- (c) Write down the specifications for 1st class brick work in cement mortar 1:6 in super structure. 8

UNIT - III

- 3 (a) Write short notes on the following : 4×2=8
- (i) Administrative approval
- (ii) Expenditure Sanction and Technical Sanction.
- (b) What are the factors to be considered for the preparation of detailed estimate. Explain in detail. 8

OR

- 3 Estimate the cost of earthwork for a portion of road at the rate of Rs. 465.00 in banking and Rs. 365.00 in cutting for 400 m length from the following data :
Formation width of road is 10 m. side slopes are 2:1 in banking and 1.5 : 1 in cutting

Station	Distance in meters	R.L. of Ground	R.L. of Formation
25	1000	51.00	52.00
26	1040	50.90	Downward gradient of 1 in 200 ↓
27	1080	50.50	
28	1120	50.80	
29	1160	50.60	
30	1200	50.70	
31	1240	51.20	
32	1280	51.40	
33	1320	51.30	
34	1360	51.00	
35	1400	50.60	

Draw the longitudinal section of road and a cross section.

16

UNIT - IV

- 4 (a) How does a subsidiary cash book differ from an ordinary cash book? What certificate is required to be given at the time of closing of a cash book ?
- (b) Explain the rule for preparation of Muster Roll.

8

8

OR

4E4116]

3

- 4 Write short notes on the following :
- (i) Standard Measurement book
 - (ii) Contingencies and work charge establishment
 - (iii) Imprest account
 - (iv) Liquidated damages.

4×4=16

UNIT - V

- 5 (a) Enlist the different methods of valuation. Explain in detail Land and Building method.
- (b) Explain the role of Valuer in a society.

8

8

OR

- 5 (a) Explain the term "Lease Hold Property" in detail.
- (b) Differentiate between the following :
- (i) Scrap value and Salvage value
 - (ii) Depreciation and Sinking fund.

8

4×2=8