

10CV73

Seventh Semester B.E. Degree Examination, June/July 2017

#### Estimation and Valuation

Times 3 hrs.

Max. Marks:100

Note: 1. Answer full auestion from PART-A.

#### 2. Answer FOUR full questions, selecting at least TWO questions from PART-B and PART-C.

#### PART - A

- T. Prepare a detailed estimate for residential building shown in Fig.Q1 (i) and (ii) for following items of work. Prepare an abstract also. Adopt center line method.
  - Earth work in excavation for foundation in hard soil at Rs.125/m<sup>3</sup>
  - C.C bed 1:4:8 for walls at Rs.2500/m<sup>3</sup> and basement at Rs.2500/m<sup>3</sup>
  - iii) First class brick work in C.M. 1:4 in foundation and basement at Rs.4000/m<sup>3</sup>
  - iv) D.P.C. 2.5 cm thick with standard water proofing compound at Rs.4100/m<sup>2</sup>
  - v) First class brick work in C.M in 1: 6 in superstructure including parapet Rs.4000/m<sup>3</sup>.

640 Minuricab

#### PART - B

- 2 Prepare a detailed estimate of a septic tank with a soak pit shown in Fig.O2 for following items of work. (15 Mlauriks)
  - i) Earth work in excavation
  - iii) First class brickwork in C.M. 1:4
- ii) C.C. bed 1:3:6
- iv) 12 mm thick cement plastering of walls
- Write detailed specification of any three of following: 3
  - Reinforced cement concrete (R.C.C) ii) Damp proof course 2.5 cm cc 1:11/2:3
  - iii) First class brickwork

- iv) Plastering in C.M.
- CLS Numerical
- What is an estimate? What are the different data required to prepare an estimate? Explain.
  - (07 Minutes)

Enumerate various types of estimate. Explain any one in brief.

408 Minimics)

#### PART - C

- 5 Carry out rate analysis for any three of following:
  - Cement concrete 1:2:4 in foundation
  - ii) Coursed rubble stone masonry in superstructure in 1:6 cement mortar
  - 12 mm thick plastering in C.M. 1:6
  - iv) 2.5 cm thick cement concrete 1:1½:3. Damp proof course (DPC).

(15 Marks)

Prepare a detailed estimate for earth work for portion of a road from following data:

Chainage in metres	0	100	200	300	400	500	
R.L. of ground	114.50	114.75	115.25	115.20	116.10	116.85	
R.L. of formation in m	←115 upward gradient upto 600 as 1 in 200						

600	700	800	900	1000	11100	1200
118.00	118.25	118.10	117.80	117.75	117.90	119.50

Formation width of road is 10 m, side slope 2:1 in banking and 1½:1 in cutting. The cost of filling is Rs.220/m3 and cutting is Rs.150/m3. (15 Marries)

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