

B.TECH SEM – VIII (2007 COURSE) (CIVIL ENGG.) :

SUMMER - 2018

SUBJECT : QUANTITY SURVEYING & VALUATION*

Day : **Saturday**
Date : **09/06/2018**

S-2018-2863

Time : **02.30 PM TO 06.30 PM**
Max. Marks : 80

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining attempt **ANY TWO** questions from each section.
- 2) Answers to both the section should be written in **SEPARATE** answer books.
- 3) Use of non-programmable **CALCULATOR** is allowed.
- 4) Figures to the right indicate **FULL** marks.
- 5) Assume suitable data if necessary.

SECTION – I

- Q.1**
- a) Define specification and objectives of drafting the specification. [05]
 - b) What is administrative approval and technical sanction? [04]
 - c) Determine the material required for construction 23 cum brick masonry in super structure in 1:6 cement marker. [05]
- Q.2**
- a) Give the units of measurements for following items of work: [04]
 - i) Excavation for pipeline
 - ii) Electrical fittings
 - iii) Wash basin
 - iv) Dam
 - v) Percolation tank
 - vi) Hospital
 - vii) External plastering
 - viii) Cement painting
 - b) Enlist different types of estimates and explain detailed estimate. [09]
- Q.3**
- A brick masonry wall 6 m × 4 m × 0.30 m have constructed in 1:6 cm. There is one door opening of the size 1.1 m × 2.1 m. Determine the quantities of following items: [13]
- i) Brick masonry
 - ii) Plastering
 - iii) Cement paint
 - iv) Timber for door frame 75 mm × 120 mm
 - v) Oil paint for door

- Q.4**
- a) Prepare a rate analysis for 1:3:6 cement concrete for beam. [07]
 - b) What are the different methods for earthwork calculation for road work? [06]

SECTION – II

- Q.5**
- a) What is valuation? Explain rental method of valuation. [05]
 - b) Prepare a tender notice for construction of shopping mall with estimated cost of ₹50 lakhs. [05]
 - c) What is valid contract? [04]
- Q.6**
- a) Define value, price and cost. [03]
 - b) What are the objectives of valuation? [04]
 - c) Explain belting method of valuation. [06]
- Q.7**
- a) Define tender and enlist necessary terms included in the tender notice. [06]
 - b) What is mortgage? Discuss equitable mortgage. [07]
- Q.8**
- a) What is contract? Discuss item rate contract. [07]
 - b) What is arbitration? What are the objectives of arbitration? [06]

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