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VII SEMESTER B.TECH (CIVIL ENGINEERING)													

## END SEMESTER EXAMINATIONS, NOV/DEC 2015

## SUBJECT: ESTIMATING, COSTING & VALUATION [CIE 401]

## **REVISED CREDIT SYSTEM**

Time: 3 Hours

MAX. MARKS: 50

## Instructions to Candidates:

- ✤ Answer ANY FIVE FULL the questions.
- ✤ Missing data may be suitable assumed.

1A.	Calculate the quantities of earthwork in making a proposed road from the chainage10 to 17 using the prismoidal formula. The RL of ground points at each chainage isas given in the table shown below. The proposed road is having RL 71.00m at thestation 12 and a uniform upward gradient of 50: 1 from station 10 to 17. Formationwidth of the proposed road is 10m and side slopes in cutting 1: 1 and in banking 2: 1.Prepare an Abstract of earthwork at the rate of Rs. 75/Cum (CUTTING) and Rs.100/Cum (Filling).Stations/Chainage(30m)1011121314151617RL of ground70.072.874.173.571.470.669.971.0										
1B.	Write a note on (i) revised Estimate (ii) Spot levelling in computation of earthwork	4M									
2A.	The accompanying sketch (Fig. Q2,) shows the plan of a residential building and a section through the walls. Workout the quantities of following items of work. Adopt long wall-short wall method. (i) Stone masonry in foundation below the ground (ii) Plain cement concrete in flooring bed 100 mm thick.										
3A.	Estimate the quantities of external plastering for the residential building plan shown in Fig.Q2.										
3B.	Fig.Q3 shows the reinforcement details for an isolated RCC footing. Prepare a bar bending schedule for 12 mm bar used in footing and 8 mm bar used in stirrups. Cover for footing is 50 mm and that for column is 25 mm.										
4A.	Find the rate per unit for 50mm thick red oxide cement flooring consisting of under layer of 40mm thick cement concrete (1:2:4) and top layer of 10mm thick red oxide cement plaster (1:3).										
4B.	What are the necessity of specifications? And Explain general specification.										
5A.	A building is constructed at a cost of Rs. 30,00,000/- on a land purchased at Rs.10,00,000/ The owner of the property expects a return of 15% on the cost of construction and 10% on the cost of land. The building is estimated to have a future life of 60 years at the end of which it requires Rs. 50,00,000/- for constructing of new building in its place. Determine the standard rent of the property, given: i) Rate of interest for sinking fund at 6%, ii) Annual repair at 1.5% of the cost of construction, iii) All other outgoings at 28% of the net income of the property, iv) Scrap value at the end of the useful life of the building as 10%.										
5B.	What are the duties and liabilities of the contract?										

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Image: Manipal Institute of Technology, Manipal Institute of Manipal University)   INSPIRED BY LIFE															
6	<b>A</b> .	What are the essentials of contract? Explain in detail.										5N	1		
6	в.	List the methods of valuation of an open land and Explain Belting method of								d of	5N	1			



Valuation.