

MANIPAL INSTITUTE OF TECHNOLOGY

# VII SEMESTER B.TECH. (CIVIL ENGINEERING)

## END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: ESTIMATION, COSTING AND VALUATION [CIE 401] REVISED CREDIT SYSTEM ( / /2016)

#### 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 age 11 to 18 using the p chainage is as given in the 81.00m at the station 13 a 18. Formation width of the and in banking 2: 1. Pr Cum(CUTTING) and Rs. Stations/Chainage(30m) RL of ground	e arthw rismoid table nd a ur propor repare 100/ Cu 11 80.0	vork in dal forn shown niform osed ro an Abs um (Fil 12 82.3	makin mula. below upward ad is 1 stract o ling). 13 84.1	ng a pro The RI . The p d gradie Om and f earthy 14 83.5	oposed oropose ent 50: l side s work at 15 81.4	road fi ound p d road 1 from lopes i t the ra 16 80.6	rom the points a is hav n statio in cutti ite of F 17 79.9	e chain at each ing RL n 11 to ng 1: 1 Rs. 75 / 18 81.0	6М
1B.	Write a note on (i) Work Charged Establishment (ii) Spot Levelling in earthwork computation.									4M
2A.	The accompanying sketch (Fig. 2.) 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) PCC bed in foundation trench (1i) RCC main slab 150 mm thick								10M	
3A.	Estimate the quantities of external plastering of for the residential building plan shown in Fig.2.									3M
3B.	Fig.3 shows the reinforcement details for a RCC slab 150 mm thick resting on, walls of a two room building. Wall thickness is 0.3 m thick. Prepare a bar bending schedule for entire slab reinforcement. Cover for reinforcement is 25 mm.								7M	
4A.	<ul> <li>Workout unit rate for the following:</li> <li>1. Coursed Rubble stone Masonry in CM (1:6) in Superstructure</li> <li>2. 40mm thick flooring, under layer of 30mm thick cement concrete (1:2:4) and top layer of 10mm thick red oxide cement plaster (1:4).</li> </ul>								2M+3M	
4B.	Write general specifications for Foundation & Plinth, DPC, First Class Brickwork, Flooring, Doors and Windows for the First Class Building.							5M		
5A.	Write detail specification of (1:6 CM) on wall	on (i) F	First cla	ass bric	k work	and (i	i) Cem	ent Pla	stering	5M

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5B.	Name the different methods of Valuation. Briefly explain Rental method of valuation.	5M
6A.	An owner has decided to sell his vacant property with a 18 year old single storied building having a total plinth area of 100 sq. m. The market value of the land is Rs. 10, 00,000/- as compared with the adjoining areas. There is no comparable instance of letting value available in the locality but the present plinth area rate to Construct such a new building has been determined from current sale price which is Rs. 10,000 per sq m. What should be the sale price of the property having a total life of 70 years and when the rate of annual sinking fund interest is 5%?	6M
6B.	What are the Essentials of Contracts? Explain in detail.	<b>4M</b>



