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Set No. 1



Code No: **R42011**

IV B.Tech II Semester Supplementary Examinations, July/August - 2017 ESTIMATION SPECIFICATIONS & CONTRACTS (Civil Engineering)

Time: 3 hours

Max. Marks: 75

[15]

[30]

Question paper consists of Part-A and Part-B Answer any THREE questions from Part-A Answer one question from Part-B *****

Part-A (3x15=45)

1.	a)	List out the main items of work in construction and explain them in detail.			
	b)	What are the principle of units for various items of works?	[7]		

- 2. Describe the procedure for the calculation of rate per unit cum of Cement Concrete 1:2:4 with ballast 40 mm. [15]
- 3. Prepare a detailed estimate for earth work for a portion of a road from the following data:

Distan									
ce in	0	100	200	300	400	500	600	700	800
m									
R.L of									
Groun	113.5	113.7	114.25	115.1	115.85	117.25	117.1	116.8	116.75
d						~			

Formation level is 114.00,Upward gradient 1 in 200 up to 600m and downward gradient 1 in 400.Formation width is 10 m side slope in banking as 2:1 and in cutting as 1.5:1.The unit rate for earth work is Rs 400 for cutting and Rs 300 in filling.

- 4. What are the various types of contracts? Explain them briefly. [15]
- 5. Write detailed specifications for cement concrete (1:4:8) and stone masonry in C.M. 1:6. [15]

<u>Part-B</u> (1x30=30)

- 6. Estimate the quantities of following items by using short wall and long wall method from fig.1(a) &1(b)
 (a) Earth work excavation for foundation
 (b) Plain cement concrete for foundation
 - (c) Brick masonry in C.M 1:6 for superstructure with deductions

Note: Make suitable assumptions where necessary

1 of 3



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- 7. a) Estimate the quantities of following items by using centre line method from fig.2(a) and 2(b).
 (i) Earth work excavation for foundation
 (ii) Plain cement concrete (1:4:8) in foundation
 (iii) Plastering with C.M 1:3 inside only *Note: Make suitable assumptions where necessary* [20]
 - b) Compare out- to out and in to in method with centre line method of estimating building works. [10]





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