## Exam No:

## GANPAT UNIVERSITY

## B. Tech.(Civil) Sem.-VI CBCS Regular Examination – April/June : 2017 2CI604 Estimating & Costing

				2C1004 ESUII	lating & Costing	
Max. T	ime: 3	3 Hours			Total Ma	rks: 60
		(2) Figur (3) Be pr	<ol> <li>This Question paper has two sections. Attempt each section in separate answer</li> <li>Figures on right indicate marks.</li> <li>Be precise and to the point in answering the descriptive questions.</li> <li>Assume standard dimensions and rates wherever required.</li> </ol>			
					tion – I	
Q.1 (	(A)	What are the essential qualities that are required to be a good estimator?				
and the first term		Write down points to be observed while preparing measurement book.				
	(B)	Write down points to be observed while preparing measurement book. (05)  OR				
						(05)
Q.1	(A)	Write down deduction criteria for calculating the quantity of plaster work.				
	<b>(B)</b>	Discuss the major aspects of any construction project and how that aspects are affected. (05)				
	(A)	Write detailed Specifications for (1) Earth work in excavation in foundation.(2)				(06)
Q.2	(2.4)	Cement concrete 1: 2: 4				
(	<b>(B)</b>	Workout	rate analysi	s for 'Cement C	Concrete-1:2:4 (Unit 1 cu m.)'	(04)
					OR	
Q.2	(A)	Workout rate analysis for (1) First class Brickwork in Superstructure in Cement				
		Mortar 1:6, (2) 12mm thick Cement Plastering on wall in CM (1:6)-unit 1 sq. m.				(02)
Q.2	<b>(B)</b>	Will defined Specification 2				
<b>Q.3</b>		Calculate the quantity of earthwork of a portion of a channel with the following data. (1) Bed width = 5.0m, (2) Free board = 0.4 m, (3) Slope of digging = 1.5:1, (4)				
		Slope of Banking = 2:1,(5) Full Supply Depth = 1.2 m, (6) Top width of banks =				
		2.0 m (Left) and 2.30 m (Right).				
		2.0 m (E	Distance	Ground	Bed Level in m	
			in m	Level in m		
			0	335.24	334.00	
			50	334.80	333.94	
			100	334.43	333.88	
			150	334.12	333.82	
			200	334.50	333.78	
		SIMI T	250	334.98	333.70 333.64	
			300	334.68	333.04	

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334.40

334.60

334.10

333.80

350

400

450

500

333.58

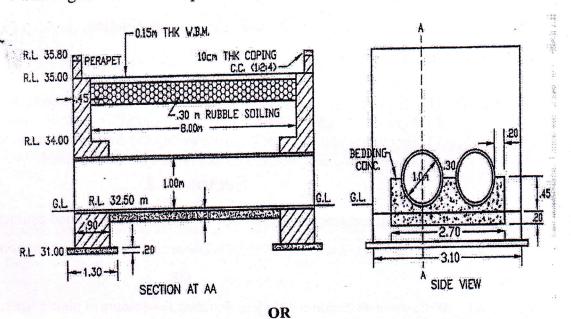
333.52

333.46

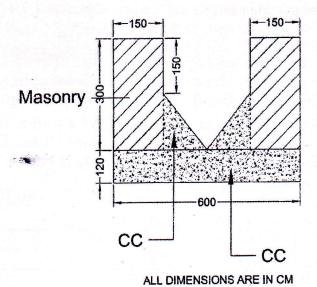
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## Section- II

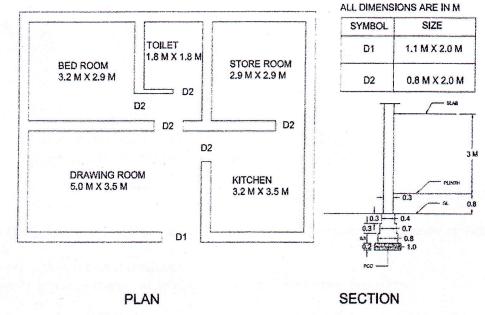
Q.4 Find out quantity of items for Culvert given below. (1) Excavation (2) Masonry work for abutments in CM 1:6 (3) Cement concrete in foundation and in barrel (4) Plastering in CM 1:6 for exposed surfaces.



Q.4 What do you understand by 'Surface Drain' and how it functions? Calculate quantity of surface drain shown below for items (1) CC work (2) Masonry work (3) plastering work on exposed surfaces. Take length of surface drain as 800 m.

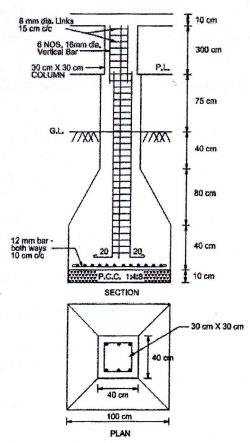


Q.5 Find out quantity of items following "Centre-Line Method" for plan given below. (1) Excavation (2) PCC (3) Masonry work in foundation (4) Masonry work in super structure (5) Plastering Inside.



OR

- Q.5 Find out quantity for items following "Long wall -Short wall" method. (1) (10) Excavation (2) PCC (3) Masonry work in foundation (4) Masonry work in super structure (5) Plastering Inside. Refer plan of Q.5.
- Q.6 Prepare an estimate for following items using standard rates. [1] CC work (Footing & Column) [2] Steel work of the structure in KG.[3]Formwork. Use suitable market rate.



" END OF PAPER"

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