Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - WINTER 2023

Subje	ect Cod	le:31613	03					Date:07-12-2023
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Subject Name:Estimation , Specifications and Project Management
Time:02:30 PM TO 05:00 PM Total Marks:70

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Inctrii	ctions:
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- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. Simple and non-programmable scientific calculators are allowed.

			MARKS
Q.1	(a)	Estimate the quantity for Excavation from Figure 1.	03
	(b)	Estimate the quantity for B.B.C.C. from Figure 1.	04
	(c)	Estimate the quantity for Brick masonry work and Plaster work from Figure 1.	07
Q.2	(a)	Estimate the quantity for Kotah stone flooring from Figure 1.	03
	(b)	Prepare Abstract (Cost Estimation) for the Corner step from Figure 1.	04
	(c)	Write Specifications of 20 mm sand faced cement plaster. OR	07
	(c)	Write Specifications of painting in three coats.	07
Q.3	(a)	What is contract? What is importance of the contract?	03
	(b)	Write purpose of foundation.	04
	(c)	Explain various types of contract.	07
0.4	()	OR	0.2
Q.3	(a)	What is unbalanced Tender?	03
	(b)	Write brief note on subsurface investigation.	04
0.4	(c)	Explain three forms of Tender.	07
Q.4	(a)	What do you mean by Preceding Activity in the project management? Explain it with example.	03
	(b)	Write Rate analysis for the Oil Painting.	04
	(c)	Write Rate analysis for the RCC beam proportion (1:2:4) with steel reinforcement.	07
		OR	0.0
Q.4	(a)	Explain factors affecting Project planning.	03
	(b)	Write Rate analysis for the Marble flooring.	04
0.5	(c)	Write Rate analysis for the P.C.C. proportion (1:6:12).	07
Q.5	(a)	What do you mean by dummy activity in the project management?	03
	(b)	Explain advantage and disadvantage of Bar chart.	04
	(c)	From the data of table 1, create critical path bar chart. OR	07
Q.5	(a)	Explain needs of Construction Management.	03
	(b)	Explain about Network diagram for Project Management.	04
	(c)	From the data of table 1, prepare the network diagram and create critical path.	07

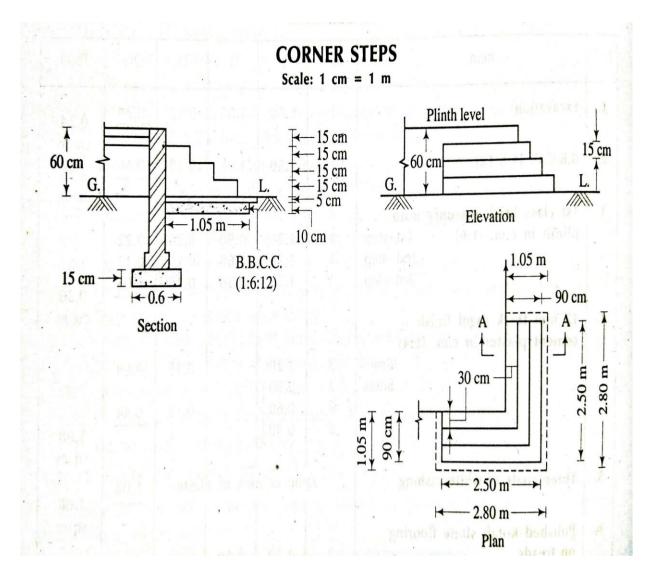


Figure 1: Section, Elevation and Plan view of Corner step

Table 1: Data for Network diagram and Bar Chart

Activity	Duration in days	Preceding activity	Following activity
A	3	None	B, C
В	2	A	D, E
С	3	A	E
D	5	В	F
E	6	B, C	F, G
F	5	D, E	None
G	4	Е	None
