Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VI (NEW) EXAMINATION - SUMMER 2023** 

Subject Code:3161303	Date:10-07-2023
Subject Nama Fetimation	Specifications and Project Management

Subject Name: Estimation, Specifications and Project Management
Time: 10:30 AM TO 01:00 PM
Total Marks: 70

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Inctri	ctions:
THOU U	icuons.

1.	Attempt	all q	uestions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. Simple and non-programmable scientific calculators are allowed.

	<i>-</i>	pre una non programmante serenante entenneste ure uno men	MARKS
Q.1	(a) (b)	Estimate the quantity for B.B.C.C. from Figure 1. Estimate the quantity for Brick masonry work in septic tank from Figure 1.	03 04
	(c)	Estimate the quantity for Excavation from Figure 1.	07
Q.2	(a) (b)	Estimate the quantity for R.C.C. Slab from Figure 1. Estimate the quantity for 30 cm Brick masonry work in Soak pit from Figure 1.	03 04
	(c)	Give classification of specification.  OR	07
	(c)	Write Specifications of Cement-concrete work Flooring in proportion (1:2:4).	07
Q.3	(a)	Describe Lump-sum Contract.	03
	<b>(b)</b>	Explain rubble masonry with its types in details.	04
	(c)	Describe Essential requirements of contract. <b>OR</b>	07
Q.3	(a)	Explain Earnest money.	03
	<b>(b)</b>	Write purpose of foundation.	04
	(c)	Draft out a typical tender notice to be given in local newspaper for construction of laboratory building worth RS 20,00,000.	07
Q.4	(a)	Explain needs of Construction Management.	03
	<b>(b)</b>	Write Rate analysis for the Excavation in ordinary soil.	04
	(c)	Write Rate analysis for the 1.0 m wide RCC step proportion (1:2:4) with steel reinforcement.	07
0.4	(a)	OR What do you meen by Project Management?	03
Q.4	(a) (b)	What do you mean by Project Management? Write Rate analysis for the Whitewashing in three coats.	03 04
	(c)	Write Rate analysis for the Brickbat Cement Concrete proportion (1:6:12) for foundation and plinth.	07
Q.5	(a)	What do you mean by Project Scheduling?	03
	<b>(b)</b>	Difference between Event and Activity.	04
	(c)	From the data of table 1, create critical path bar chart. <b>OR</b>	07
Q.5	(a)	What do you mean by Mile stone chart?	03
	<b>(b)</b>	Difference between PERT and CPM.	04
	(c)	From the data of table 1, prepare the network diagram and create critical path.	07

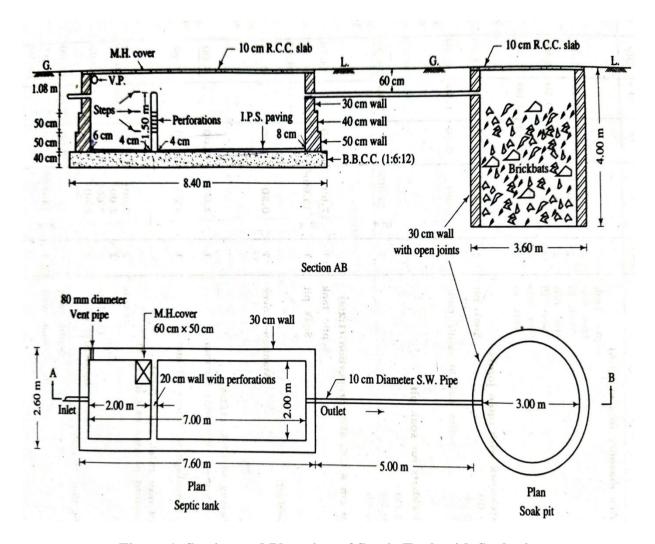


Figure 1: Section and Plan view of Septic Tank with Soak pit

Table 1: Data for Network diagram and Bar Chart

Activity	Duration in days	Preceding activity	Following activity
A	3	None	B, C
В	4	A	D
С	6	A	D, E
D	3	B,C	F
Е	6	C	G
F	4	D	I
G	5	Е	H,J
Н	3	G	I
I	6	F,H	L
J	4	G	K
K	4	J	L
L	4	I,K	None

\*\*\*\*\* All the Best \*\*\*\*\*