

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code:3161303****Date:10-07-2023****Subject Name:Estimation , Specifications and Project Management****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

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 B.B.C.C. from Figure 1.	03
	(b) Estimate the quantity for Brick masonry work in septic tank from Figure 1.	04
	(c) Estimate the quantity for Excavation from Figure 1.	07
Q.2	(a) Estimate the quantity for R.C.C. Slab from Figure 1.	03
	(b) Estimate the quantity for 30 cm Brick masonry work in Soak pit from Figure 1.	04
	(c) Give classification of specification.	07
	OR	
	(c) Write Specifications of Cement-concrete work Flooring in proportion (1:2:4).	07
Q.3	(a) Describe Lump-sum Contract.	03
	(b) Explain rubble masonry with its types in details.	04
	(c) Describe Essential requirements of contract.	07
	OR	
Q.3	(a) Explain Earnest money.	03
	(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) 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
	OR	
Q.4	(a) What do you mean by Project Management?	03
	(b) Write Rate analysis for the Whitewashing in three coats.	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) Difference between Event and Activity.	04
	(c) From the data of table 1, create critical path bar chart.	07
	OR	
Q.5	(a) What do you mean by Mile stone chart?	03
	(b) Difference between PERT and CPM.	04
	(c) From the data of table 1, prepare the network diagram and create critical path.	07

