GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION - SUMMER 2022 Subject Code:3140911 Date:23-06-2022

Dubj	cci	Codc.5140711 Datc.25-00-2022	
Subj	ect l	Name:Economics for Engineers	
Time	:10	:30 AM TO 01:00 PM Total Marks: 70	
Instru			
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
Q.1	(a) (b)	Define Engineering Economics. What is the scope of Engineering Economics? Explain Variable cost.	03 04
	(c)	Discuss different problems come in the way of Good Decision Making.	07
Q.2	(a)	Explain Opportunity Cost with suitable example.	03
	(b)	<u>.</u>	04
	(c)	State types of Cost estimating Models. Explain Power-sizing Model. OR	07
	(c)	Write note on Time value of Money with suitable example.	07
Q.3	(a)	What is Cash Flow?	03
	(b)	Explain Per unit Model of Cost estimating.	04
	(c)	Explain the application of Single-Payment Present Worth Amount Interest Formulas. OR	07
Q.3	(a)	State the different methods of Debt repayment.	03
	(b)		04
	(c)	Explain the application of Equal-Payment Series Compound Amount Interest Formulas.	07
Q.4	(a)		03
Q. 4	(a) (b)		03
	(c)	Explain Sensitivity Analysis.	07
	(C)	OR	07
Q.4	(a)		03
	(b)	• 1	04
	(c)	Explain Future worth Analysis.	07
Q.5	(a)	What is the importance of Internal Rate of Return method?	03
	(b)		04
	(c)	Write note on Present Worth Analysis.	07
		OR	
Q.5	(a)	· · · · · · · · · · · · · · · · · · ·	03
	(b) (c)	State different steps for Effective Decision Making Process. Explain Breakeven Analysis.	04 07
