

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-IV (NEW) EXAMINATION – WINTER 2020****Subject Code:3140911****Date:09/02/2021****Subject Name:Economics for Engineers****Time:02:30 PM TO 04:30 PM****Total Marks:56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Define economics. Why is the study of Economics useful for engineers?	03
	(b) What is difference between fixed cost and variable cost?	04
	(c) Explain Economics decisions making process.	07
Q.2	(a) Write down types of Estimate.	03
	(b) Explain Recurring And Nonrecurring Costs.	04
	(c) Write short notes on Marginal & Average Costs.	07
Q.3	(a) Define Life-Cycle Costs.	03
	(b) Short note: Segmenting Model.	04
	(c) Explain Income Elasticity of Demand with example.	07
Q.4	(a) What is Sunk Costs?	03
	(b) Explain time value of money.	04
	(c) Write short notes on breakeven analysis.	07
Q.5	(a) Define Debt repayment.	03
	(b) Explain nominal and effective interest.	04
	(c) Explain Annual Cash Flow Analysis.	07
Q.6	(a) Write definition of inflation.	03
	(b) Explain Internal Rate Of Return.	04
	(c) Explain Composite Vs Commodity Indexes.	07
Q.7	(a) Define cash flow.	03
	(b) Write effects and causes of inflation.	04
	(c) Explain Price Change with Indexes.	07
Q.8	(a) What is Borrowed Money Viewpoint?	03
	(b) Explain Future Worth Analysis.	04
	(c) Explain End-Of-Year Convention.	07

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV (NEW) EXAMINATION – WINTER 2021****Subject Code:3140911****Date:31/12/2021****Subject Name:Economics for Engineers****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.

- Q.1** (a) Explain the term “economics” and in the context of economics. **03**
 (b) Explain the types of Estimates. **04**
 (c) Describe the types of cost briefly. **07**
- Q.2** (a) Explain the Price elasticity. **03**
 (b) What is the nominal and effective interest? **04**
 (c) Explain Cash Flow diagram in detail. **07**
- OR**
- (c) Explain Time value of Money with example. **07**
- Q.3** (a) What is the purpose of cash flow analysis? **03**
 (b) What is the Benefit-to-Cost Ratio? What is the value of good benefit/cost ratio? **04**
 (c) Write a Brief note on Break Even Analysis. **07**
- OR**
- Q.3** (a) Explain Income Elasticity. **03**
 (b) What is incremental analysis. **04**
 (c) Explain Rate of Return (RoR). Write the formula of RoR. Give the example of RoR. **07**
- Q.4** (a) What is price index? **03**
 (b) Write a short note on Composite index. **04**
 (c) What do you mean by inflation? What are the causes of inflation? **07**
- OR**
- Q.4** (a) What is End of year convention? **03**
 (b) What are the methods to control the inflation? Explain any one. **04**
 (c) Define term Taxes in brief with types. **07**
- Q.5** (a) What are Economic criteria? **03**
 (b) Write a short note on commodity index. **04**
 (c) What are the assumption and limitations of breakeven analysis? **07**
- OR**
- Q.5** (a) What is the difference between nominal cash flow and real cash flow? **03**
 (b) Write a short note on Learning Curve Theory. **04**
 (c) What are the effects of inflation and deflation? **07**

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2021****Subject Code:3140911****Date:03/09/2021****Subject Name:Economics for Engineers****Time:02:30 PM TO 05:00 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) Define economics. Why is the study of Economics useful for engineers?	03
	(b) What is difference between Marginal & Average Costs?	04
	(c) Explain Economics decisions making process.	07
Q.2	(a) Write down types of Estimate.	03
	(b) Explain cash cost And book Costs.	04
	(c) Write short notes on Sunk cost & Opportunity Costs with examples.	07
	OR	
	(c) Explain segmenting model with example.	07
Q.3	(a) Define Life-Cycle Costs.	03
	(b) Short note: Per-Unit Model.	04
	(c) Explain Income Elasticity of Demand with example.	07
	OR	
Q.3	(a) Explain time value of money.	03
	(b) Define incremental Costs.	04
	(c) Write short notes on breakeven analysis.	07
Q.4	(a) Define Debt repayment.	03
	(b) Explain treatment of salvage value.	04
	(c) Explain Annual Cash Flow Analysis.	07
	OR	
Q.4	(a) Explain Internal Rate Of Return.	03
	(b) Write definition of inflation and its effects.	04
	(c) Explain Composite Vs Commodity Indexes.	07
Q.5	(a) Define cash flow.	03
	(b) Explain causes of inflation.	04
	(c) Explain Price Change with Indexes.	07
	OR	
Q.5	(a) Define economic criteria.	03
	(b) Explain Future Worth Analysis.	04
	(c) Explain End-Of-Year Convention.	07

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2022

Subject Code:3140911

Date:23-06-2022

Subject Name:Economics for Engineers

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.

- Q.1** (a) Define Engineering Economics. What is the scope of Engineering Economics? **03**
(b) Explain Variable cost. **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) What is Simple Interest and Compound Interest. **04**
(c) State types of Cost estimating Models. Explain Power-sizing Model. **07**
- OR**
- (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. **07**
- OR**
- Q.3** (a) State the different methods of Debt repayment. **03**
(b) What is the difference between Marginal Cost and Marginal Revenue? **04**
(c) Explain the application of Equal-Payment Series Compound Amount Interest Formulas. **07**
- Q.4** (a) What is Salvage value? **03**
(b) Define Inflation. What are the different types of Inflation? **04**
(c) Explain Sensitivity Analysis. **07**
- OR**
- Q.4** (a) What are the different types of Price Indexes? **03**
(b) What is the use of Price Indexes in Engineering Economic analysis? **04**
(c) Explain Future worth Analysis. **07**
- Q.5** (a) What is the importance of Internal Rate of Return method? **03**
(b) What is the difference between Inflation and Deflation? **04**
(c) Write note on Present Worth Analysis. **07**
- OR**
- Q.5** (a) What is Life Cycle Costs? **03**
(b) State different steps for Effective Decision Making Process. **04**
(c) Explain Breakeven Analysis. **07**
