

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-IV EXAMINATION – SUMMER 2025**

**Subject Code:3140911**

**Date:08-05-2025**

**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.

	Marks
<b>Q.1</b> (a) Define economics. Why is the study of Economics useful for engineers?	<b>03</b>
(b) Explain Variable cost.	<b>04</b>
(c) Explain Economics decisions making process.	<b>07</b>
<b>Q.2</b> (a) Explain the Price elasticity.	<b>03</b>
(b) Write down the advantage and disadvantages of estimating model.	<b>04</b>
(c) Write short notes on Sunk cost & Opportunity Costs with examples.	<b>07</b>
<b>OR</b>	
(c) Explain segmenting model with example.	<b>07</b>
<b>Q.3</b> (a) What is Cash Flow?	<b>03</b>
(b) Explain treatment of salvage value.	<b>04</b>
(c) Write a Brief note on Break Even Analysis.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) How many types are in learning curve? Explain any one in brief.	<b>03</b>
(b) What is incremental analysis.	<b>04</b>
(c) Explain Rate of Return (RoR). Write the formula of RoR. Give the example of RoR.	<b>07</b>
<b>Q.4</b> (a) What is price index?	<b>03</b>
(b) Define Inflation. What are the different types of Inflation?	<b>04</b>
(c) Describe the procedure to prepare debt repayment.	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) Define Debt repayment.	<b>03</b>
(b) What are the methods to control the inflation? Explain any one.	<b>04</b>
(c) Define term Taxes in brief with types.	<b>07</b>
<b>Q.5</b> (a) What is Borrowed Money Viewpoint?	<b>03</b>
(b) Write effects and causes of inflation.	<b>04</b>
(c) Write note on Present Worth Analysis.	<b>07</b>
<b>OR</b>	
<b>Q.5</b> (a) What is Life Cycle Costs?	<b>03</b>
(b) Explain Future Worth Analysis.	<b>04</b>
(c) Explain End-Of-Year Convention.	<b>07</b>

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