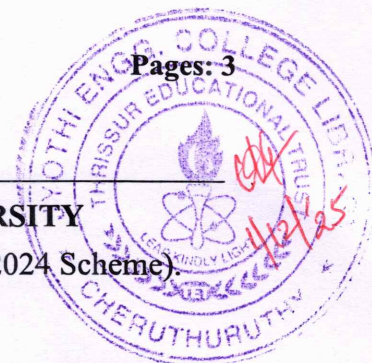


Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**B.Tech Degree S3 (R) (FT/WP) Examination November 2025 (2024 Scheme)****Course Code: UCHUT346****Course Name: ECONOMICS FOR ENGINEERS**

Max. Marks: 50

Duration: 2 hours 30 minutes

PART A*(Answer all questions. Each question carries 3 marks)*

		CO	Marks
1	List the factors that influence the demand for a product?	CO1	(3)
2	In a Production function $Q = 2 L^{1/2} K^{1/2}$. What will be the maximum output that can be produced if 25 units of labour is combined with 18 units of capital. Also calculate AP_L and AP_K ?	CO1	(3)
3	What is Opportunity cost. Explain with the help of an example?	CO2	(3)
4	Distinguish between GDP and GNP?	CO3	(3)
5	Define Inflation and its classification?	CO3	(3)
6	What is meant by Value Analysis and Value Engineering?	CO4	(3)

PART B*(Answer any one full question from each module, each question carries 8 marks)***Module -1**

- | | | | |
|---|--|-----|-----|
| 7 | a) Explain with the help of PPC, the Central Problems of an economy? | CO1 | (5) |
| | b) An Umbrella manufacturing company sells 2000 umbrellas every month at Rs 400 per unit. When they decrease the price to Rs 350 per unit, their sales increases to 2500 units. Calculate Price elasticity of demand for umbrella? | CO1 | (3) |

- 8 a) What happens to Total and Marginal Utility when a person consumes more and more units of same product. Explain the situation with the help of a table and diagram? CO1 (5)
- b) Define Price elasticity of demand and its degrees with diagram? CO1 (3)

Module -2

- 9 a) Suppose a notebook manufacturing company pays Rs 3500 as rent and Rs 5000 as interest every month. If the selling price per note book is Rs 45, and variable cost per unit is Rs 28:
- (1) Estimate Break Even level of Output
- (2) If they are selling 1500 note books, what will be the profit.
- (3) Find MOS if the sales is 800 units.
- b) Distinguish between Explicit cost and Implicit cost? CO2 (3)
- 10 a) Describe the main features of Perfect Competition? CO2 (5)
- b) Why is price said to be rigid in an Oligopoly market? CO2 (3)

Module -3

- 11 a) Estimate GNP_{mp} , GNP_{fc} , NNP_{mp} , NDP_{mp} and National Income if $GDP_{mp}=3500$, Depreciation=40, Indirect tax= 90, Subsidy=40 and NFIA= -80? CO3 (5)
- b) State any three difficulties in measuring national income? CO3 (3)
- 12 a) Explain the quantitative measures used to control Inflation? CO3 (5)
- b) How does Repo Rate differs from Reverse Repo Rate? CO3 (3)

Module -4

- 13 a) Explain the procedure of Value Engineering? CO4 (5)
- b) Mention any three advantages of Value Engineering? CO4 (3)

- 14 a) Details of 2 projects are given below. The capital cost for both the projects are Rs 80000 for a period of 4 years. Decide which project to be chosen based on Pay Back Period method? CO4 (5)

Year	1	2	3	4
Project A	22000	34000	46000	53000
Project B	25000	36000	50000	57000

- b) List any 2 advantages and disadvantages of Pay Back Period method? CO4 (3)
