

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degree S3 (S) Examinations (FT/WP) May 2026 (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	State the Law of Demand and draw a demand curve?	CO1	(3)
2	Briefly examine the 2 techniques of production?	CO1	(3)
3	Differentiate between private cost and social cost?	CO2	(3)
4	Define National Income and why intermediate goods are excluded from National Income Calculation?	CO3	(3)
5	Examine the 3-tier classification of an economy?	CO3	(3)
6	Define Cost Value, Use Value, and Exchange Value?	CO4	(3)

PART B

(Answer any one full question from each module, each question carries 8 marks)

Module -1

- | | | | |
|---|-----------------------------------------------------------------------------------------------------------------|-----|-----|
| 7 | a) Briefly examine the Central Problems of an economy with the help of a diagram? | CO1 | (5) |
| | b) What happens to equilibrium price and quantity when there is a positive shift in the demand for the product? | CO1 | (3) |
| 8 | a) Diagrammatically explain the Law of Variable Proportions? | CO1 | (5) |

- b) In a production function $Q = 3 L^{1/2} K^{1/2}$, where L is 12 and K is 9. What will be the maximum output that can be produced and also calculate Marginal Product of Labour? CO1 (3)

Module -2

- 9 a) Suppose a Monopolistic competitive firm is earning abnormal profit in the short run. Explain the situation with a diagram? CO2 (5)
- b) List out the features of Oligopoly market? CO2 (3)
- 10 a) The Fixed and Variable expense of a production unit is Rs 10000 and Rs 15 respectively. If the selling price per unit is Rs 25, Calculate Contribution, PV Ratio, and Break-Even Sales? CO2 (5)
- b) How does Break Even analysis help in decision making process? CO2 (3)

Module -3

- 11 a) Briefly explain the different methods used for National Income Calculation? CO3 (5)
- b) Calculate National Income based on the following data: CO3 (3)
Wage=1500, Rent=400, Interest= 450, Profit=1500 and NFIA= -300
- 12 a) Examine the various measures used to control Inflation? CO3 (5)
- b) How does Inflation affect the various income groups and the producers? CO3 (3)

Module -4

- 13 a) Explain the procedure of Value Engineering. CO4 (5)
- b) List three major application of Value Engineering. CO4 (3)
- 14 a) An investment proposal would initially cost Rs 25000 and would generate CO4 (5)

year end cash flows of Rs 7000, Rs 8500, Rs 8000, Rs 6500 and Rs 9000 through 5 years. The required rate of return is 10%. Calculate Net Present Value and interpret the result?

- b) How does Capital Budgeting helps in managerial decision-making process? CO4 (3)
