COMPARENT DEVICENTES ACCURATE DAUCH READER TO	



QP CODE: 25020226

Reg No	:	
Name	:	

B.A DEGREE (CBCS)) REGULAR/ IMPROVEMENT/ REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

Fourth Semester

B.A Economics Model I

Complementary Course - EC4CMT03 - MATHEMATICS FOR ECONOMIC ANALYSIS

2017 Admission Onwards

F8DDF41F

Time: 3 Hours

Max. Marks : 80

Part A

Answer any **ten** questions. Each question carries **2** marks.

- 1. Define Utility.
- 2. Consumer Surplus.
- 3. Budget line.
- 4. Average Cost.
- 5. Complementory Goods.
- 6. Supply Curve.
- 7. Local Market.
- 8. Imperfect Market.
- 9. The Following is a Pay Off Matrix

$$\begin{pmatrix} 1 & -2 \\ 2 & -1 \end{pmatrix}$$

What is the value of Game? Who will be the winner of the Game? Why?

10. To find out the value of a game. Strategies are A_1, A_2, A_3, A_4 and B_1, B_2, B_3, B_4

 $\begin{pmatrix} 40 & 30 & 24 & 70 \\ 50 & 28 & 16 & 20 \\ 80 & 4 & 20 & 10 \\ -10 & 8 & 22 & 0 \end{pmatrix}$

- 11. Fair Game.
- 12. Objective Function.

(10×2=20)

Part B

Answer any **six** questions.

Each question carries 5 marks.

- 13. Define indifference curve. Explain the properties of an indifference curve.
- 14. Explain CES Production function.
- 15. Explain returns to scale.
- 16. Explain the different sources of Monopoly.
- 17. Critically evaluate the Marginal Productivity Theory.
- 18. What is Game Theory? Discuss its importance to business decisions.
- 19. Define strategy. Explain different types of strategy.
- 20. Explain Prisoner's Dilema.
- 21. Explain zero sum game theory with example.

(6×5=30)

Part C

Answer any **two** questions. Each question carries **15** marks.

- 22. Explain the law of Variable proportions.
- 23. Brefly analyse the shortrun and longrun equilibrium of Monopolistic Competition.
- 24. Explain the Sweezy Model of Price Stickiness -Kinked Demand Curve.
- 25. Explain the Dominance Principle used in the Game theory.

(2×15=30)