20101027

QP CODE: 20101027

Reg No : .....

Name : .....

BA DEGREE (CBCS) EXAMINATION , MARCH 2020

Fourth Semester

B.A Economics Model I

Complementary Course - EC4CMT03 - MATHEMATICS FOR ECONOMIC ANALYSIS

2017 ADMISSION ONWARDS

4E273B59

Time: 3 Hours Marks: 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Law of Diminishing Marginal Utility
2. Indifference Curve
3. Inelastic Demand
4. Production Function
5. CES - Production Function
6. Product Market
7. Imperfect Market
8. Low-Cost Firm
9. Find the Saddle Point of a Game. Strategies are A_1,A_2,A_3 and B_1,B_2,B_3

$$\begin{pmatrix} 3 & 2 & 4 \\ -2 & 1 & -3 \\ 0 & -2 & 3 \end{pmatrix}$$

10. Dominant Strategy
11. Solve the Game whose Pay Off Matrix is given below.

$$\begin{pmatrix} 9 & 3 & 1 & 8 & 0 \\ 6 & 5 & 4 & 6 & 7 \\ 2 & 4 & 3 & 3 & 8 \\ 5 & 6 & 2 & 2 & 1 \end{pmatrix}$$

12. Zero Sum Game

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain expenditure method of measuring Elasticity.

14. Explain Different types of cost.

15. What are the features of Income Consumption Curve.

16. Evaluate the Price and Output determination under discriminating Monopoly

17. Analyse the different concept of Personal and Functional Distribution

18. What is Game Theory? Discuss its importance to business decisions.

19. Solve the following Game . Strategies are A_1, A_2 and B_1, B_2

$$\begin{pmatrix} 3 & 5 \\ 4 & 1 \end{pmatrix}$$

20. Solve the following 2X2 Game by Probability Method.

$$\begin{pmatrix} 3 & -2 \\ -2 & 3 \end{pmatrix}$$

21. Solve Graphically the Game whose Pay Off Matrix is given below. Strategies are A_1, A_2, A_3, A_4, A_5 and B_1, B_2

$$\begin{pmatrix} -6 & 7 \\ 4 & -5 \\ 1 & -2 \\ 2 & 5 \\ 7 & -6 \end{pmatrix}$$

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Critically evalate the least cost combination of inputs.

23. What are the different methods of measuring elasticity of supply ?How does supply elasticity is classified?

24. Define Dumping.Brefly explain the equilibrium under Dumping .

25. Critically evaluate the Two- Person Zero Sum Game.

(2×15=30)