Reg. No. : ....

Name : ....

Third Semester M.A. Degree Examination, June 2022

Behavioural Economics and Data Science

BEDS 533 : GAME THEORY

(2020 Admission)

Time : 3 Hours　　　　　　　　　　　　　　　　　　Max. Marks : 75

PART – I

Answer **all** questions in **one or two** sentence. Each question carries **1** mark.

1. Coalitional Game

2. Players

3. Auctions

4. Maxmin Strategy

5. Ultimatum Game

6. Pay off Matrix

7. Rational Choice

8. Cooperative game

9. Prisoners Dilemma

10. Strategy.

(10 × 1 = 10 Marks)

PART – II

Answer **any seven** questions. Each answer should not exceed **500** words.

11. Write a short essay on Symmetric game and Symmetric Equilibria.

12. Define Dominated Strategy and explain its different outcomes.

13. Briefly explain the main concepts related to game theory.

14. How far game theory made applicable in Bertrand's Model of duopoly?

15. Write a note on Strategic Moves.

16. Briefly explain about the concept of best response in game theory.

17. Write a short essay on the main advantages of rational choice theory.

18. Point out the main features of Sub game Perfect Nash Equilibrium.

19. Write briefly on backward induction.

20. Give some illustrations related with Extensive form games.

(7 × 5 = 35 Marks)

PART – III

Answer **any three** questions. Each answer should not exceed **1,200** words.

21. Define game theory and its main assumption and limitations.

22. Briefly explain Stakelberg model of duopoly markets.

23. Explain Nash Equilibrium concepts with examples.

24. Write an essay on War of Attrition in game theory.

25. Diagrammatically explain Cournot Model of duopoly.

(3 × 10 = 30 Marks)

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