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result from these decisions although game theory can be and has been used to analyze parlour games its applications are much broader game theory is the study of the ways in which strategic interactions among rational players produce outcomes with respect to the preferences or utilities of those players none of which might have been intended by any of them 1 philosophical and historical motivation 2 basic elements and assumptions of game theory 2 1 utility 2 2 games and rationality 2 3 trees and matrices 2 4 the prisoner s dilemma as an example of strategic form vs extensive form representation 2 5 solution concepts and equilibria 2 6 subgame perfection game theory questions with solutions are given for practice and for the understanding of the concept of game theory in operations research visit byju s to solve game theory questions game theory normal form game set 3 game with mixed strategy consider the following payoff matrix with respect to player a and solve it optimally solution if a game has no saddle point then the game is said to have mixed strategy an introduction to game theory presents the main models of game theory as simply as possible while maintaining complete precision it includes a wide variety of illustrations from the social and behavioral sciences and over 200 exercises see the table of contents for the topics covered

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