

# History of Game Theory

Game Theory · Practice Test · 15 Questions

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**1. Which mathematician published 'Theory of Games and Economic Behavior' in 1944, effectively launching game theory as a distinct field?**

- A) John von Neumann and Oskar Morgenstern
- B) John Nash and Albert W. Tucker
- C) Kenneth Arrow and Gerard Debreu
- D) Herbert Simon and James March

**2. In 1950, who proposed the famous 'Prisoner's Dilemma' thought experiment while working at the RAND Corporation?**

- A) Merrill Flood and Melvin Dresher
- B) John Nash
- C) Thomas Schelling
- D) Robert Aumann

**3. John Nash was awarded the Nobel Memorial Prize in Economic Sciences in 1994, primarily for his work on which concept?**

- A) The Nash Equilibrium
- B) Bargaining Theory
- C) Cooperative Games
- D) Zero-sum Games

**4. During the Cold War, which organization heavily funded game theory research to model nuclear deterrence and strategic military decision-making?**

- A) The RAND Corporation
- B) The International Monetary Fund
- C) The United Nations
- D) The World Bank

**5. Which 1838 work by Antoine Augustin Cournot is considered an early precursor to game theory, focusing on competition between firms?**

- A) Researches into the Mathematical Principles of the Theory of Wealth
- B) The Wealth of Nations
- C) Principles of Economics
- D) Capital

**6. What concept, introduced by Lloyd Shapley in 1953, provides a solution for distributing the total surplus generated by the cooperation of several players?**

- A) The Shapley Value
- B) The Core
- C) The Nucleolus
- D) The Bargaining Set

**7. In 1913, which mathematician published a paper on the game of poker that contained the first formalization of a minimax theorem?**

- A) Ernst Zermelo
- B) Émile Borel
- C) John von Neumann
- D) James Waldegrave

**8. Which game theory concept describes a situation where no player can benefit by changing their strategy while the other players keep theirs unchanged?**

- A) Nash Equilibrium
- B) Pareto Efficiency
- C) Dominant Strategy
- D) Zero-sum outcome

**9. In 1928, John von Neumann proved the Minimax Theorem, which fundamentally established the existence of an optimal strategy for which type of games?**

- A) Zero-sum, two-person games
- B) Non-cooperative games
- C) Infinite games
- D) Imperfect information games

**10. Who is credited with introducing the concept of 'Evolutionary Stable Strategy' (ESS) in 1973?**

- A) John Maynard Smith
- B) George Price
- C) Robert Trivers
- D) Richard Dawkins

**11. The 'Ultimatum Game' was first introduced in 1982 by a team of researchers led by which economist?**

- A) Werner Güth
- B) Daniel Kahneman
- C) Amos Tversky
- D) Richard Thaler

**12. Before game theory was formalized, who proved in 1913 that games of perfect information (like chess) have a deterministic outcome?**

- A) Ernst Zermelo
- B) David Hilbert
- C) Henri Poincaré
- D) Bertrand Russell

**13. In his 1960 book 'The Strategy of Conflict', which author applied game theory to international relations and nuclear diplomacy?**

- A) Thomas Schelling
- B) Henry Kissinger
- C) Kenneth Waltz
- D) Hans Morgenthau

**14. Which type of game involves players who must make decisions simultaneously without knowing the other player's move?**

- A) Normal-form game
- B) Extensive-form game
- C) Cooperative game
- D) Stochastic game

**15. Robert Aumann shared the 2005 Nobel Memorial Prize in Economic Sciences for his work on which aspect of game theory?**

- A) Repeated games
- B) Mechanism design
- C) Auction theory
- D) Social choice theory