History of Operations Research: Operations Research (OR) has its roots in the early 20th century and evolved as a response to the complex challenges posed by World War II. The discipline emerged from the efforts of military planners to optimize resource allocation and strategic decision-making.The history of Operations Research reflects its dynamic evolution from a wartime necessity to a versatile discipline applied across industries for systematic problem-solving and decision optimization.Continuous Evolution: – OR continues to evolve, incorporating advanced mathematical techniques, artificial intelligence, and data analytics.Development of Key Techniques: – Linear programming, developed by George Dantzig in the late 1940s, became a cornerstone of OR. – Simulation techniques, game theory, and network analysis also gained prominence in the 1950s and 1960s.Expansion into Various Fields: – OR expanded into diverse fields such as healthcare, transportation, finance, and telecommunications during the latter half of the 20th century.Formation of OR Societies: – After the war, interest in applying mathematical methods to problem-solving persisted.Integration of Computers: – The advent of computers in the 1960s and 1970s revolutionized OR, allowing for more complex modeling and efficient solution algorithms.Global Spread: – OR became a global discipline, with societies and associations established in various countries.– Its applications in supply chain management, optimization, and decision analysis remain vital in addressing contemporary challenges.World War II Origins: – During World War II, military operations faced intricate logistical and tactical problems.