

CS6659-ARTIFICIAL INTELLIGENCE**UNIT 1
INTRODUCTION TO AI AND PRODUCTION SYSTEMS**

SYLLABUS: Introduction to AI- Problem formulation, Problem Definition - Production systems, Control strategies, Search strategies, Problem characteristics, Production system characteristics - Specialized production system- Problem solving methods - Problem graphs, Matching, Indexing and Heuristic functions -Hill Climbing-Depth first and Breadth first, Constraints satisfaction - Related algorithms, Measure of performance and analysis of search algorithms.

COURSE OBJECTIVE: Learn the methods of solving problems using Artificial Intelligence.

PART – A**1. What is AI?**

Artificial Intelligence is the branch of computer science concerned with making computers behave like humans.

- Systems that think like humans
- Systems that act like humans
- Systems that think rationally
- Systems that act rationally

2. Define an agent.

An agent is anything that can be viewed as perceiving its environment through sensors and acting upon that environment through actuators.

**3. What is an agent function? Differentiate an agent function and an agent program.**

An agent's behavior is described by the agent function that maps any given percept sequence to an action.

AGENT FUNCTION	AGENT PROGRAM
An abstract mathematical description	A concrete implementation, running on the agent Architecture.

4. What can AI do today?

- Autonomous Planning and Scheduling

Artificial Intelligence Important Questions With Answers

Oswaal Editorial Board



Artificial Intelligence Important Questions With Answers:

Artificial Intelligence Interview Questions and Answers Jimmy Mathew, 2025-08-04 This book is designed to help you excel in Scrum Master role interviews by providing 200 carefully curated situational questions along with detailed answers. Each question addresses real world scenarios that Scrum Masters often face covering key challenges related to team dynamics stakeholder engagement Agile transformation and organizational change. With comprehensive explanations this course empowers you to understand the logic behind each answer helping you build your own personalized responses during interviews. Whether you are an aspiring Scrum Master or looking to refine your interview skills this course equips you with the insights needed to succeed. A few things to keep in mind there is often no single correct answer to these questions. The responses provided here are based on personal experience but interviewers may have different perspectives shaped by their own challenges and background. The goal is not to memorize exact answers but to understand the logic and reasoning behind them so that you can adapt and craft your responses during the interview. We've provided detailed answers to give you a range of ideas to draw from allowing you to build a solid answer even if you only recall a few key points during the interview. Now let's dive into the questions. Good luck. **Get NIELIT Scientist B Imp. Questions and start preparing now!**

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Multiple use cases that stem from the authors MIT classes as well as from AI practitioners AI project managers early career AI team leaders technical executives and entrepreneurs Exercises and Jupyter notebook examples *Artificial Intelligence for Science and Engineering Applications* Shahab D. Mohaghegh,2024-04-01 Artificial Intelligence AI is defined as the simulation of human intelligence through the mimicking of the human brain for analysis modeling and decision making Science and engineering problem solving requires modeling of physical phenomena and humans approach the solution of scientific and engineering problems differently from other problems Artificial Intelligence for Science and Engineering Applications addresses the unique differences in how AI should be developed and used in science and engineering Through the inclusion of definitions and detailed examples this book describes the actual and realistic requirements as well as what characteristics must be avoided for correct and successful science and engineering applications of AI This book Offers a brief history of AI and covers science and engineering applications Explores the modeling of physical phenomena using AI Discusses explainable AI XAI applications Covers the ethics of AI in science and engineering Features real world case studies Offering a probing view into the unique nature of scientific and engineering exploration this book will be of interest to generalists and experts looking to expand their understanding of how AI can better tackle and advance technology and developments in scientific and engineering disciplines **Impact of Artificial Intelligence in Business and Society**

Francesco Paolo Appio,Davide La Torre,Francesca Lazzeri,Hatem Masri,Francesco Schiavone,2023-07-31 Belonging to the realm of intelligent technologies it is increasingly accepted that artificial intelligence AI has evolved from being merely a development standpoint in computer science Indeed recent reports and academic publications show that we are clearly on the path toward pervasive AI in both business and society Organizations must adopt AI to maintain a competitive advantage and explore opportunities for unprecedented innovation This book focuses on understanding the wide range of opportunities as well as the spectrum of challenges AI brings in different business contexts and society at large The book highlights novel and high quality research in data science and business analytics and examines the current and future impact of AI in business and society The authors bridge the gap between business and technical perspectives and demonstrate the potential and actual impact on society Embracing applied qualitative and quantitative research as well as field experiments and data analysis the book covers a broad range of topics including but not limited to human centered AI product and process innovation corporate governance AI and ethics organizational performance and entrepreneurship This comprehensive book will be a valuable resource for researchers academics and postgraduate students across AI technology and innovation management and a wide range of business disciplines **Get your hands on UPPSC Important Questions and boost scores.**

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Handbook of Research on AI and ML for Intelligent Machines and Systems Gupta, Brij B.,Colace, Francesco,2023-11-27 The Handbook of Research on AI and ML for Intelligent Machines and Systems offers a comprehensive exploration of the pivotal role played by artificial intelligence AI and machine learning ML technologies in the development of intelligent machines As the demand for intelligent machines continues to rise across various sectors understanding the integration of these advanced technologies becomes paramount While AI and ML have individually showcased their capabilities in developing robust intelligent machine systems and services their fusion holds the key to propelling intelligent machines to a new realm of transformation By compiling recent advancements in intelligent machines that rely on machine learning and deep learning technologies this book serves as a vital resource for researchers graduate students PhD scholars faculty members scientists and software developers It offers valuable insights into the key concepts of AI and ML covering essential security aspects current trends and often overlooked perspectives that are crucial for achieving comprehensive understanding It not only explores the theoretical foundations of AI and ML but also provides guidance on applying these techniques to solve real world problems Unlike traditional texts it offers flexibility through its distinctive module based structure allowing readers to follow their own learning paths

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