



Department of Artificial Intelligence and Machine Learning

Date: 06.11.2025

Test - I

Max. Marks: 10 + 50

Semester: VII

UG

Duration: 2 Hrs.

Course Title: Agentic Artificial Intelligence

Course Code: AI3731A

PART A

S. No	Questions	M	BT
1	Write the Profile Content of the Customer Support Agent.	2	1
2	How does self-consistency help reduce errors in responses?	2	2
3	Differentiate Basic and sequential planning.	2	2
4	How modern Agentic Systems are different from the early generative AI systems.	2	2
5	What are the abilities of modern language agents?	2	1

PART B

S. No	Questions	M	B
1a.	Discuss interaction models in Agentic AI.	5	5
1b.	Elaborate on the reasoning approaches utilized by agentic AI systems.	5	5
2a.	Summarize the architecture of Multi-agent Systems.	5	5
2b.	Discuss the design of the Auto GPT in detail.	5	5
3a.	Differentiate the single agent and multi- agent systems.	5	5
3b.	Explain Self-Governance, Agency, and Autonomy in Agentic AI.	5	5
4a.	Discuss the workflow of the Model Context Protocol (MCP) with an example.	5	5
4b.	Consider Artistic Applications as a multi-agent system and discuss the various agents involved in the generation of the animated movie.	5	5
5a.	A company is building an AI assistant that can check inventory, fetch customer records, send automated emails, and update their ERP system. Initially, the AI model can only generate text responses and cannot access internal company tools or live data. To enable real-world actions, the development team integrates an MCP (Model Context Protocol) server, which allows the AI to securely connect to databases, APIs, and internal software systems. Discuss the MCP server lifecycle of the said application.	5	5
5b.	What are the key differences between Generative AI and Agentic AI architectures?	5	5