Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 08-10-2025 **Time:** 09.30am to 11.00am

School: SOIS	**Program**: BCA	
Course Code : CSA1701	**Course Name:** Artificial Intelligence	
Semester: III	**Max Marks**: 50	**Weightage**:25%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**26**	**24**	**0**	**0**	**0**

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks. **5Q x 2M=10M**

1	Define the term "Agent" in Artificial Intelligence.	**2 Marks**	**L1**	**CO1**
2	Differentiate between Narrow AI and General AI.	**2 Marks**	**L2**	**CO1**
3	List two key foundations of Artificial Intelligence.	**2 Marks**	**L1**	**CO1**
4	Define Knowledge Representation in AI.	**2 Marks**	**L1**	**CO2**
5	What are the different types of knowledge?	**2 Marks**	**L2**	**CO2**

Part B

Answer the Questions. **Total Marks 40M**

6.	**a.**	Explain the different types of agents in Artificial Intelligence with suitable examples (Simple Reflex, Model-Based, Goal-Based, Utility-Based, Learning Agents).	**10 Marks**	**L2**	**CO 1**
		Or			
7.	**a.**	Discuss the significance of Machine Learning, Deep Learning,	**10 Marks**	**L2**	**CO**

		NLP, and Computer Vision in Artificial Intelligence.			**1**

8.	**a.**	Describe the history of AI from the 1950s to the present. Highlight key milestones such as the Dartmouth Conference, Perceptron, AI Winter, Expert Systems, and modern AI resurgence.	**10 Marks**	**L2**	**CO 1**
		Or			
9.	**a.**	Write a detailed note on applications of AI in Healthcare, Business, and Autonomous Systems.	**10 Marks**	**L2**	**CO 1**

10.	**a.**	Compare and contrast Propositional Logic and First-Order Logic (FOL). Highlight their syntax, semantics, expressive power, limitations, and applications with suitable examples	**10 Marks**	**L2**	**CO 2**
		Or			
11.	**a.**	Discuss Knowledge-Based Systems (KBS). Explain their structure (knowledge base, inference engine, user interface), advantages, limitations, and real-life applications such as Expert Systems.	**10 Marks**	**L2**	**CO 2**

12.	**a.**	Discuss different types of knowledge representation techniques (Logical, Semantic Networks, Frames, Production Rules) with examples.	**10 Marks**	**L2**	**CO 2**
		Or			
13.	**a.**	Compare Declarative Knowledge and Procedural Knowledge. How are both used in Knowledge-Based Systems?.	**10 Marks**	**L2**	**CO 2**