



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.													
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End - Term Examinations – May/June 2026

Date: 15- 05-2026

Time: 09:30am – 12:30pm

School: SOIS	Program: BCA	
Course Code: CSA1704	Course Name: Principles of Artificial Intelligence	
Semester: VI	Max Marks: 100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05
Marks	24	24	26	26	-

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.

10Q x 2M=20M

1.	Define environment in AI.	2 Marks	L1	C01
2.	What is a utility-based agent?	2 Marks	L2	C01
3.	State two characteristics of intelligent agents.	2 Marks	L1	C02
4.	What is inference in AI?	2 Marks	L1	C02
5.	Define abductive reasoning.	2 Marks	L1	C03
6.	What is uniform cost search?	2 Marks	L2	C03
7.	Define CSPs.	2 Marks	L1	C03
8.	What does ANN stand for?	2 Marks	L2	C04
9.	State one application of ANN-based learning.	2 Marks	L3	C04
10.	What is multiagent decision making?	2 Marks	L2	C04

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Explain intelligent agents in detail.	10 Marks	L4	C01
	b.	Discuss their structure and functions.	10 Marks	L2	C01
Or					
12.	a.	Describe applications of AI in education.	10 Marks	L2	C01
	b.	Explain goal-based agents with examples.	10 Marks	L3	C01

13.	a.	Explain inference in FOL with unification.	10 Marks	L3	C02
	b.	Discuss resolution in FOL	10 Marks	L3	C02
Or					
14.	a.	Compare deductive, inductive, and abductive reasoning.	10 Marks	L4	C02
	b.	Explain the role of logic in intelligent systems.	10 Marks	L4	C02

15.	a.	Apply problem-solving methodologies to airline scheduling.	10 Marks	L3	C03
	b.	Explain iterative deepening search.	10 Marks	L2	C03
Or					
16.	a.	Elaborately describe how CSPs are used in resource allocation.	10 Marks	L4	C03
	b.	Discuss adversarial search in gaming systems.	10 Marks	L3	C03

17.	a.	Discuss ANN architecture and backpropagation.	10 Marks	L2	C04
	b.	Explain supervised vs. unsupervised learning.	10 Marks	L2	C04
Or					
18.	a.	Analyze sequential decision problems with utility theory.	10 Marks	L4	C04
	b.	Explain reinforcement learning with temporal difference methods.	10 Marks	L3	C04