PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION MAY 2025

(Fifth Semester)

Branch - SOFTWARE SYSTEMS (Five years Integrated)

ARTIFICIAL INTELLIGENCE

Tim	e: Three Hours	Maximum: 50 Marks	S
	Answ	TION-A (5 Marks) ver ALL questions ns carry EQUAL marks	$(5 \times 1 = 5)$
1.	Which of the given language is n (i) LISP (iii) Python	ot commonly used for AI? (ii) PROLOG (iv) Perl	
2.	A problem in a search space is d (i) Initial state (iii) Intermediate state	efined by one of these state. (ii) Last state (iv) All of the mentioned	
3.	Wumpus World is a classic probl (i) Single player Game (iii) Reasoning with Knowledge	(ii) Two player Game	
4.	Uncertainty arises in the world be (i) Full & Global information (iii) Partial & local Information	(ii) Partial & Global Information	
5.	Zero sum game has to be a (i) Single player (iii) Multiplayer	_ game. (ii) Two player (iv) Three player	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)			
1	a. Discuss about intelligent Agent. OR o. Prepare the notes on Agent based	system.	
7 a	a. Explain the short notes on Blind S OR	Search.	
İ	o. Discuss about Alpha Beta Prunin	g.	
	a. What are the different between Fo	_	
ł	o. Discuss about Propositional Logic	C.	Cont

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9 a. Write notes on the concept of Uncertainty.

OR

- b. Prepare the short notes on Temporal model.
- 10 a. Discuss about Utility functions.

OR

b. Prepare the short notes on Value iterations.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Explain in detailed about the History of AI.

OR

- b. Predict in the detail concept of Agent based systems.
- 12 a. Elucidate the concept of Meta Heuristic.

OR

- b. Explain in detailed about Minimax algorithms.
- 13 a. Write notes on Knowledge based agents.

OR

- b. Compare the concepts Propositional & First order logics.
- 14 a. Elucidate the Exact inference in reasoning networks.

OR

- b. Predict the notes on Inference in Temporal Models.
- 15 a. Analyze the concept of Basics of Utility theory.

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b. Explain in detailed about Decision with multiple theory.

Z-Z-Z END