PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Sixth Semester)

Branch - COMPUTER SCIENCE WITH DATA ANALYTICS

ARTIFICIAL INTELLIGENCE

Time: Three Hours				Maximum: 50 Marks
		Answer	ON-A (5 Marks) r ALL questions carry EQUAL marks	$(5 \times 1 = 5)$
1.	(i)		rogramming language for (ii) Java (iv) Perl	AI?
2.	(i)	ere does the values of alpha-bet Along the path of search at the end	a search get updated? (ii) Initial state itself (iv) None of the mention	ned
3.	(i)	umpus World is a classic proble Single player Game i) Reasoning with Knowledge	(ii) Two player Game	
4.	The statement comprising the limitations of FOL is/are			Languages
5.	(earning is a natural activity of	(ii) Living organism (iv) Individuals	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
6	а. b.	Explain the history of AI. OR Write notes on heuristic search	n strategies.	
7	a.			
	b.			
8	a. b.	OR		

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9 a. Write note on Syntax and Semantic for first order logic.

OR

- b. Discuss about Resolution of inference.
- 10 a. Explain the need of learning decision tree.

OR

b. Write short detail on Ensemble learning.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Explain the Foundation and Art of AI.

OR

- b. Examine the Structure and Problem solving agent.
- 12 a. Explain the functions of Alpha and Beta pruning.

OR

- b. Compare and construct Constraints satisfaction and propagation.
- 13 a. Describe the concept of Proportional theorem proving.

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- b. Brief notes on Agent based of propositional logic.
- 14 a. Estimate the Knowledge engineering in FOL.

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- b. Explain the difference between Forward and backward chaining.
- 15 a. Describe the following concept of
 - (i) Supervised Leaning (ii) Theory of Learning.

OR

b. Demonstrate the regression and classification with linear models.

Z-Z-Z

END