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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fifth Semester)

Branch - COMPUTER SCIENCE

DISCIPLINE SPECIFIC ELECTIVE - I: ARTIFICIAL INTELLIGENCE

Time: Three Hours			Maximum: 50 Marks
SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 X 1 = 5)			
1.	The birth of AI was a) 1956	b) 1960	
	c) 1964	d) 1968	
2.	CSP stands for a) Condition Satisfied Problem	b) Constraint Satisfaction Pro	blem
	c) Condition Satisfaction Problem	d) Constraint Satisfaction Pro	cess
3.	Find the expansion of CNF is a) Conjunctive Normal Function	b) Condition Normal Form	
	c) Conjunctive Normal Form	d) Condition Normal Function	n
4views the relations & functions referred to by fir			referred to by first -
	order logic as objects in themselves. a) Higher order logic	b) Temporal logic	
	c) Middle order logic	d) Lower order logic	
5.	5. What represents a function that takes as input a vector of attributes values and returns a decision a single output value?a) Decision treeb) Syntax tree		
	c) Derivation Tree	d) Parse Tree	
SECTION - B (15 Marks)			
Answer ALL questions ALL questions carry EQUAL marks (5 X 3 = 15)			
6. A) Differentiate Agent and Intelligent Agent. (OR)			
B) Illustrate the structure of agents.			
7.	7. A) Define Constraint satisfaction problem. (OR)		
	B) Give a brief account on Game.		
8.	A) Narrate the significance of knowledge based agent. (OR) B) What is logical agent? Explain.		
9	9. A) Write notes on Unification.		
(OR) B) Elucidate the significance of resolution.			
10. A) Write short notes on Artificial Neural Network.			
(OR) B) Formulate the differences between Regression & Classification.			

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SECTION - C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL marks

 $(5 \times 6 = 30)$

11. A) Discuss the concept of rationality.

(OR)

- B) How to formulate problem? Discuss.
- 12. A) Summarize the concept of forward pruning.

(OR)

- B) Examine various variations on the CSP formalism.
- 13. A) Bring out the importance of semantics in proportional logic.

B) Summarize the steps in resolution algorithm.

- b) Summarize the steps in resolution argorithm
- 14. A) Analyse the models of First Order Logic.

(OR)

- B) Assess the inference rules for quantification.
- 15. A) Illustrate the representation of Decision trees.

(OR)

B) Describe various forms of learning.

Z-Z-Z END