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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Fifth Semester, B.E. - Computer Science and Engineering Semester End Examination; Dec. - 2019 **Artificial Intelligence**

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

		UNIT - I					
1 a.	a. What is AI? Discuss the applications of AI.						
b.	c. Convert the following assumptions to predict calculus:						
		i) Steve only like easy courses	10				
	, and the second	iv) Everybody level somebody	10				
•	v) BW10l is a easy course.						
2 a.							
b.	Assume the following facts:						
	i) Jane is Paul's motherii) Jane is Mary's mother						
	iii) What is relationship between Paul's and Mary's?						
	iv) Write a predicate calculus for the san	ne.					
		UNIT - II					
3 a.	Explain the Heuristic Search Techniques	(Any two).	10				
b.	b. Describe the eight puzzle problems with state space search tree.						
4 a.	a. Explain Greedy Hill climbing algorithm.						
b.	Discuss Min-max search algorithm with	10					
		UNIT - III					
5 a.	a. Discuss the development stages of expert systems.						
b.	Explain the applications of the expert sys	10					
6 a.	Explain the components of expert system	10					
b.	b. Describe the characteristics and benefits of expert system.						
		UNIT - IV					
7 a.	What is Fuzzy logic? Why fuzzy logic? O	10					
b.	Explain the properties of fuzzy sets.	10					
8 a.	Explain the defuzzyfication methods.	10					
b.	Explain the applications of fuzzy logic sy	stem.	10				
		UNIT - V					
9 a.	Explain the general procedures followed	in genetic algorithm.	10				
b.	b. Explain the applications of Ant Colony Intelligence.						
10 a.	Explain Swath Intelligence system.	10					
b.	b. Explain the importance of Ant Colony paradigm.						