Paper / Subject Code: 48893 / Artificial Intelligence

June 7, 2024 02:30 pm - 05:30 pm 1T01875 - T.E. Computer Science & Enginering (Artificial Intelligence & Machine Learning) (Choice Based) (R-2019 'C' Scheme) SEMESTER - V / 48893 - Artificial Intelligence QP CODE: 10055372

2. Attempt any three qu3. Assume suitable data		ours) Total Marks: 80	
		 Question No. 1 is compulsory Attempt any three questions from remaining five questions Assume suitable data if necessary and justify the assumptions Figures to the right indicate full marks 	
Q1		Solve any Four out of Five	
	A	Describe problem formulation with Missionaries and Cannibals Problem	05
	В	 Convert in to FOPL EVERYONE LIKE EVERYONE ALL GRADUATES ARE UNEMPLOYED 	05
	C	Write a PROLOG program for Fibonacci of given number.	05
	D	Identify the PEAS descriptor for Medical Diagnosis System.	05
	Е	Write a short note on: AI Perspectives: Acting and Thinking humanly	05
Q2	A	Explain the Expert Systems along with its Components. Give real life example of Expert system	10
	В	Explain any two Environment Types in detail.	10
Q3	A B	Compare and contrast simulated annealing with Hill climbing Illustrate forward chaining and backward chaining in propositional logic with example.	10 10
Q4	A	Explain different inference rule for First Order predicate logic	10
	В	What do you understand by Min Max Search and alpha beta search? Explain in detail with example.	10
Q5	A	Consider the following statements. (a) Prakash likes all kind of food. (b) Mango and Fish are food. (c) Anything anyone eats and is not killed is food. (d) Jay eats peanuts and still alive. (e) Meena eats everything that Jay eats. Prove that Prakash likes Peanuts using Resolution.	10
*	В	Explain various methods of knowledge representation techniques.	10
Q6	A	Explain Iterative Deepening Search Algorithm based on performance measure.	10
	B	Explain Prior and Posterior Probability with example.	10

55372