[M19CST1103]

I M. Tech I Semester (R19) Regular Examinations
Artificial Intelligence
Branch: Computer Science and Engineering
MODEL QUESTION PAPER

TIME: 3 Hrs.   **Max. Marks: 75 M**

Answer **ONE Question** from **EACH UNIT**

All questions carry equal marks

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			CO	KL	M
		UNIT - I			
1.	a).	Explain the varis application areas of AI	1	2	7
	b).	Write the AO* algorithm in detail	1	2	8
		OR			
2.	a).	Discuss varis heuristic search techniques	1	2	8
	b).	Explain the varis problem characteristics of AI	1	2	7
		UNIT - II			
3.	a).	Check the given propositional calculus expressions are equivalent or not (P->Q->R) AND (P->Q ^ Q->R)	2	3	9
	b).	Prove the given expression is tautology (P^Q^R)V ~P	2	3	6
		OR			
4.	a).	Explain the unification algorithm with example	2	2	6
	b).	Discuss abt resolution refutation in proportional logic	2	2	9
		UNIT - III		3	8
5.	a).	Represent the knowledge using semantic network for the mobile device	3	3	7
	b).	Construct the script for patient visiting the hospital	3		
		OR			
6.	a).	Draw & explain the components of Expert system architecture	3	2	7
	b).	Discuss abt rule based expert system in detail.	3	2	8
		UNIT - IV			
7.	a).	Discuss abt Bayesian belief networks in detail	4	2	6
	b).	How can we use dampster Shafer theory for prediction?	4	3	9

		OR			
8.	a).	What is fuzzy set & list t the operations on fuzzy set	4	2	7
	b).	Write abt different types of membership functions	4	2	8
		UNIT - V			
9.	a).	How the support vector machines can be used in machine learning?	5	3	9
	b).	Differentiate the supervised & unsupervised learning	5	3	6
		OR			
10.	a).	Design a Perceptron for EX-OR gate logic	5	3	8
	b).	Draw the structure of multi layered forward networks	5	2	7

CO: Crse tcome   **KL: Knowledge Level**   **M: Marks**