Total No. of Questions : 8]	SEAT N

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[4959]-1091 B.E. (E & TC) (Semester - I) ARTIFICIAL INTELLIGENCE (2012 Pattern) (Elective - II)

			ARTIFICIAL INTELLIGENCE (2012 Pattern) (Elective - II)	
		Ans Fig	[Maximum Mo the candidates: wer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8. wres to the right indicates full marks wme suitable data, if necessary.	arks: 70
Q1)	a)	Exp	plain the Forward and Backward chaining with suitable exam	ple. [7]
	b)		te a pseudo code for depth limit search method. Explain it demerits.	s merits
	c)	Giv	re the PEAS descriptor for the following:	[6]
		i)	Refinery Controller	
		ii)	Satellite image analysis system	
		iii)	Interactive English Tutor	
			OR	
Q2)	a)	Exp	plain the Bidirectional search strategy along with its merits and c	demerits. [6]
	b)		ine Heuristics. Explain the significance of Heuristic function in irch with suitable example.	nformed [7]
	c)	Exp	plain the Unification Algorithm along with a pseudo code.	[7]
Q3)	a)	Wri	ite a short note on:	[10]
		i)	Inductive learning.	
		ii)	Explanation Based Learning	

	b)	List out and explain the different categories of machine learning.	[8]
		OR	
Q4)	a)	Explain learning by decision trees with suitable example.	[9]
	b)	What do you mean by Ensemble Learning. Explain the ADA-BOC algorithm with pseudo code.	ST [9]
Q5)	a)	Explain in detail the architecture of artificial neural network.	[8]
	b)	Explain in detail Instance based learning.	[8]
		OR	
Q6)	a)	What is the difference between expert system and traditional system. Comment on the advantages and disadvantages of expert system.	m? [8]
	b)	What are trihedral figures? How waltz's algorithm can be applied propagate symbolic information?	l to [8]
Q7)	a)	What do you mean by syntactic analysis? Explain it with suitable examp	les. [8]
	b)	What do you mean by grammar induction? Explain it in detail.	[8]
		OR	
Q8)	a)	What is the significance of Pragmatic Interpretation in NLP.	[8]
	b)	List the characteristics of Information Retrieval process. Explain process of Evaluation of IR system	the [8]

