

Total No. of Questions: 12]

SEAT No.:

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[4959]-207

B.E.(Computer Engineering)

c:ARTIFICIAL INTELLIGENCE

(2008 Course)(Semester-I) (Elective-I) (410444)

Time :3Hours] Instructions to the candidates:		[Max. Marks: 100		
1) 2) 3) 4)	Attempt three questions from section-I and three questions from Answer to the two sections should be written in separate books Neat diagrams must be drawn wherever necessary. Assume suitable data if necessary.			
SECTION-I				
Q1) a)	Explain four approaches of artificial intelligence.	[8]		
b)	Explain an architecture of learning agent.	[8]		
	OR			
Q2) a)	Explain PEAS description for any suitable example.	[8]		
b)	Explain the foundations of Artificial Intelligence.	[8]		
Q 3) a)	Explain any one informed search technique.	[8]		
b)	Write a note on Local search techniques.	[8]		
	OR			
Q4) a)	Describe an evaluation criteria for search techniques example	s with a suitable [8]		
b)	Explain the Hill-climbing algorithm for solving the trav problem(TSP) is a touring problem in which each city exactly once			
Q5) a)	Describe a Mini-Max algorithm for game playing.	[8]		
b)				
	FORTY+TEN+TEN=SIXTY	[10]		
	OR			

Q6)	a)	Describe various approaches for solving CSPs.	[10]
	b)	Explain Alpha-Beta Search Algorithm with suitable example.	[8]
		SECTION-II	
Q7)	a)	Explain Resolution procedure in FOL	[8]
	b)	Explain the basic representations for planning.	[8]
		OR	
Q8)	a)	Explain the procedure for conversion of FOL to CNF.	[8]
	b)	What is partial- order planning? Explain a suitable example.	[8]
Q9)	a)	Write a note on decision trees	[8]
	b)	What are the axioms of probability? Explain bayes' rule	[10]
		OR	
Q10) a)	Explain various forms of Learning? Describe supervised Learning.	[10]
	b)	Write a note on decision trees.	[8]
Q11) a)	Explain Syntactic Analysis with a suitable example.	[8]
	b)	Explain the components for designing an Expert System.	[8]
		OR	
Q12	?) a)	Explain the steps in natural language understanding.	[8]
	b)	Choose any one case study and design an Expert System.	[8]

