		11		
Total No. of Questions: 12]		SEAT No. :		
P3432	[4959]-207	[Total No. of Pages : 2		
	B.E.(Computer Engineeri	ng)		
	c:ARTIFICIAL INTELLIC	GENCE		
	(2008 Course)(Semester-I) (Electiv	e-I) (410444)		
Time :3H Instructi 1) 2) 3) 4)	Jours] ons to the candidates: Attempt three questions from section-I and three questions from section-I and three questions should be written in sep Neat diagrams must be drawn wherever necessary. Assume suitable data if necessary.	•		
SECTION-I				
<b>Q1)</b> a)	Explain four approaches of artificial intellige	nce. [8]		
b)	Explain an architecture of learning agent.	[8]		
	OR			
<b>Q2)</b> a)	Explain PEAS description for any suitable e	xample. [8]		
b)	Explain the foundations of Artificial Intellige	nce. [8]		
<b>Q3)</b> a)	Explain any one informed search technique.	[8]		
b)	Write a note on Local search techniques.	[8]		
	OR			
<b>Q4)</b> a)	Describe an evaluation criteria for search example	techniques with a suitable [8]		
b)	Explain the Hill-climbing algorithm for solvi problem(TSP) is a touring problem in whice exactly once			

OR

Describe a Mini-Max algorithm for game playing.

Solve the following Cryptarithmetic using CSP

FORTY+TEN+TEN=SIXTY

*P.T.O.* 

[10]

[8]

**Q5)** a)

b)

Q6)	a) b)	Describe various approaches for solving CSPs. [1 Explain Alpha-Beta Search Algorithm with suitable example.		
	U)	Explain Alpha-Beta Scaren Algorithin 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,	www.sppuonline.com  (Q10) a) Explain various forms of Learning? Describe supervised Lear		[10]	
	b)	Write a note on decision trees.	[8]	
<b>Q</b> 11)	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.		



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[4956-207