Total	l No. o	of Questions : 12] SEAT No. :
P29	62	[Total No. of Pages : 3
		[5354]-176
		B.E. (Computer)
		ARTIFICIAL INTELLIGENCE
		(2008 Pattern)
Time	· 3 H	Hours] [Max. Marks : 100
		ons to the candidates:
	1)	Answer 3 questions from section - I and 3 questions from section - II.
	2)	Neat diagrams should be drawn wherever necessary.
	3)	Assume suitable data wherever necessary.
		SECTION - I
Q1)	a)	What are intelligent agents? Explain the architecture of a typical agent. [8]
	b)	What is the role of table driven agent program in simple reflex agent
		Explain the functions of model based reflex agents. [8]
		OR
Q2)	a)	Explain in detail what is meant by task environment. Illustrate with example. [8
	b)	Define the term Artificial Intelligence? Explain two applications of AI. [8]
Q3)	a)	What is hill climbing? Explain Plateau, ridge, local maxima and globa maxima.
	b)	Write short notes on "heuristic search". [8]

OR

Q4) a) Explain A * Algorithm with suitable example. How is it possible to avoid loops in A*. [10]

b) What is Means ends analysis. Explain with example. [8]

Q 3)	a)	Explain alpha beta cut off with an example. Assume a sample game tree for explanation. [8]
	b)	Explain Constraint satisfaction problem with example. [8]
		OR
Q6)	Writ	te short notes on [16]
	a)	backtracking for CSP
	b)	Evaluation functions for games
	c)	Local search for CSP
	d)	Partially observable games
		SECTION - II
Q7)	a)	Explain goal stack planning with an example of blocks world. [8]
	b)	Explain how planning problem is expressed in STRIPS. [10]
		OR O
Q8)	a)	Comment on Non linear planning and hierarchical planning. [8]
	b)	State the rules for converting the well formed formula to clause form
		with example. [10]
Q9)	a)	Describe any two learning methods. [8]
	b)	Explain fuzzy set and crisp set. Mention applications of fuzzy logic. [8]
		OR
Q 10,) a)	What are the basic axioms of probability? Why are they reasonable. [8]
	b)	Define the Bayes rule and explain its use with example. [8]

*Q11)*a) Give detailed architecture of expert system and explain its components.[8]

Explain the various phases of NLP with an example. b) [8]

*Q12)*a) What is the difference between expert systems and traditional system? Comment on advantages and disadvantages of expert systems. [8]

Write short notes on Parsing. b)

[8]



Chile Walls and Williams and Wi