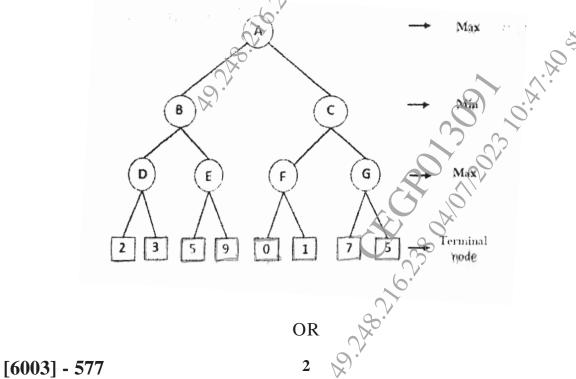
Total No. of Questions : 8]	6	SEAT No. :
P470	[6003] - \$77	[Total No. of Pages : 3

T.E. (Computer Engineering) (Honors)

	AF	RTIFICIAL INTELLIGENCE AND	MACHINE
		(2019 Pattern) (Semester - II) (31	10303)
<i>Time</i> : 2 ¹	½ Hour	rs]	[Max. Marks : 70
		the candidates:	•
1)	Answ	ver Q1 or Q2, Q.3 or Q.4, Q.5 or Q.6, and Q.7 o	or Q8.
<i>2</i>)		diagrams must be drawn whenever necessary.	290
3)	Figur	es to the right indicate full marks.	<i>y</i> ₂
		6.	
	- 0		
Q1) a)	Exp	dain Unification algorithm with suitable exam	ple. [9]
4.	0.		
b)		at is knowledge representation in propos	
	prop	positional logic and predicate logic	[8]
		OR	
() ()	Dan	was sout the fellowing out of into formando	o in mundicate la sia [0]
Q2) a)	кер	present the following sentences into formula	s in predicate logic, [9]
	i)	John likes all kinds of food.	
	1)	John fixes all kinds of food.	
	ii)	Apples are food	\$
	/	T-PP-100 MIC TO TO	A. W
	iii)	Chicken are food.	O
		·	0, 0.
	iv)	Anything anyone eats and isn't killed by i	s food.
			3,00
	v)	Bill eats peanuts and is still alive.	
		(A)	Op.
	vi)	Sue eats. everything Bill eats.	b
b) Explain various operators used in propositional logic for knowledge			
	buil	ding.	[8]
			D.M.C.
		\swarrow	<i>P.T.O.</i>

What is Artificial Neural Network? Give two applications of artificial **Q3**) a) neural networks in detail. **[6]** Explain how Decision Trees are used in Learning. b) **[6]** Explain how Support Vector Machines are used for classification with c) suitable example. **[6]** OR **[6] Q4**) a) Explain Supervised learning. Unsupervised Learning. ii) Explain the architecture of Artificial Neural Network **[6]** b) With the help of an architecture diagram explain multilayer feed forward c) artificial neural network. **[6]** [9] **Q5**) a) Illustrate Mini-Max search for the tic-tac-toe game. Solve given two player search tree using Alpha-beta pruning. b)

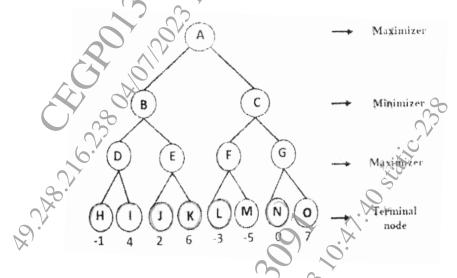


Q6) a) Write a note on



- Types of Games in AI. i)
- State-of-the-art Game Programs. ii)
- Solve the given game tree using min max algorithm. b)

[8]



- Represent the architecture of an expert system. label the various **Q7**) a) components in the diagram and explain. [9]
 - What is NLP. Explain all tive phases of NLP. b)

- **Q8**) a) Explain the applications of Natural Language Processing.
- Explain forward chaining and backward chaining for a simple example.[9] 9.28.216.23 alkalipars b)

