Total No	[o. of Questions : 10]	EAT No. :
P108		[Total No. of Pages : 2
	B.E. (Electronics and Telecommuni	cation)
	ARTIFICIALINTELLIGENC	E
	(2015 Pattern) (Semester - I) (Elective - II	() (412185-D)
<i>Time</i> : 2 ¹ / ₂	2½ Hours]	[Max. Marks : 70
Instructi	tions to the condidates:	
1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q.9	or Q.10.
2)	Neat diograms must be drawn wherever necessary.	9
3)	Assume suitable data if necessary.	3
<i>4</i>)	Figures to the right indicate full marks.	la chamia na altat a glavlatan
5)	Use of logarithmic tables slide rule, Mollier charts, el and steam tables is allowed.	ectronic pocket calculator
	S.	
Q1) a)	Discuss the simple reflex agent and model base	d agent. [5]
b)) Discuss the min-max approach for game decision	on. [5]
,	OR	
Q2) a)	Discuss the unification and lifting concepts with	one or two examples [5]
~ / /		-
b)) Discuss the MARS rover agent and its PEAS a	spects. [5]
Q3) a)	Explain the Iterative Deepening Approach with s	suitable example. (5)
b)		
U)	an example.	gineering process. Give
	.9.	
	≫′ OR	(A) (X:
Q4) a)	Explain first order logic(FOL) syntax & sema	ntics with one example
	each.	[5]

each.

b) Discuss the Hidden Markov model and its use. [5]

Q5) a) Discuss the inductive and deductive learning with examples. [8]

b) What is ensemble learning? Sketch the block schematic and explain how it's effective as compared with individual algorithms. [8]

OR

Q6) a)	What are the different learning methods? Explain any one in detail.	[8]		
b)	Discuss Explanation Based Learning (EBL) and Relevance Based Learn (RBL) with suitable examples.	ning [8]		
Q7) a)	Discuss the Pattern Recognition System. Explain the Face Recognition			
	application on the basis of pattern recognition.	[8]		
b)	b) Write a short note: Principal component analysis. Discuss with reference			
	to Eigen value and Eigen vectors and their importance. [8]			
	OR			
Q8) a)	Discuss the Linear Discriminant Analysis.	[8]		
b)				
	Theory and compare them for pattern recognition.	[8]		
7				
Q9) a)	What is Discourse understanding? What is Grammar Induction? Exp	lain		
Q) a)	with examples.	[9]		
b)	b) Discuss the ambiguity and discarbiquity Cive examples to explain the			
b)	Discuss the ambiguity and disambiguity. Give examples to explain concepts. How do we do disambiguation?	[9]		
	OR OR			
Q10)a) What is parsing? Develop the parsing tree with suitable labels				
	sentence: "A beautiful bird sat on the delicate branch".	[9]		
b)	Enlist and discuss the three different ambiguities in Natural Langu	iage		
	Processing.	[9]		
b) Enlist and discuss the three different ambiguities in Natural Language Processing. [9]				
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