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	(g)	\mathfrak{S}	(e)	(d)	(c)	(b)	(a)	Atte ansv	<u>``</u>	le:3	•	(SEI		er ID	ollow	ted I
•	Define inductive learning. How the performance of inductive learning algorithms can be measured?	Define Modus Ponen's rule in propositional logic?	Discuss the various ty algorithm with example	Define informational computational equivalence	What do you mean	Describe the role	Define support vector machine	1. a Attempt all parts. All parts carry equal marks. Write answer of all part in short. (2x10=2)	SEC1 questions are <i>comp</i> ı	noursj	ARTIFICIAL I	(SEM. VII) THEORY EXAMINATION, 2015-16	вт	: 110703	©ollowing Paper ID and Roll	Printed Pages : 4 1232
(1)	earning. How the pong algorithms can b	en's rule in proposi	Discuss the various types of model of parallel algorithm with example.	ational equivalence ivalence.	What do you mean by intelligent agent?	Describe the role of computer vision.	ctor machine.	arts carry equal ma rt .	SECTION-A compulsory.		<u>Ω</u>	XAMINATION,	B.TECH.	Roll No.	No. to be Book)	32
P.T.O.	erformance e measured?	tional logic?	l of parallel	lence and	nt?			uks. Write (2x10=20)		[lotal Marks:100]		2015-16			filled in your	ECS801

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2

 Θ $\widehat{\Xi}$ Describe the role of rational agent. Describe how can we use artificial intelligence in Natural Language Processing?

Icaning system.

SECTION-B

Attempt any five questions from this section. (10x5=50)

(a) Describe AO* search technique.

?

(E) What is intelligent agent? Describe basic kinds of agents programs

(a) Distinguish between Markov Modle and Hidden Markov Model (HMM).

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Draw diagram of HMM and show what is the hidden part of it that we refer to?

Translate following sentences in formulas in predicate logic and casual form:

Mutton is food

Anything one eats and it does not kill is a food.

Rajiv eats everthing that Sue eats.

<u>c</u>

<u></u>

<u>a</u> Kin eats peanuts and is still alive.

<u>e</u> John will marry Mary if Mary loves John.

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P.T.O.

+MORE MONEY

SEND

Discuss the problem of water jug with heuristic search tecniques?

9

representation schemes? What are the desirable properties of good knowledge

uncertainity knowledge? the Bayesian network powerful representation for Explain Bayesian network by taking an example. How is

drawback and how it can be overcome? Explain about the Hill climbing algorithm with its

9.

SECTION-C

Attempt any two questions from this section. (15x2=30)

(a) Write steps involved in making Principle Components to do a classification of given data.

Determne 2 Principle components of the following examples. set of observations of 2-dimensional data having 5

MMM.FirstRanke

5	4	3	2	1	
1.3	0.6	0	-0.6	-1.3	
1.8	0.9	0	6.0-	-1.8	

explain M	_	,		·	.•	
in-Max pr the othe	5	4	3	2	1	
ocedure. E r modific	1.3	0.6	0	-0.6	-1.3	
Explain Min-Max procedure. Describe alpha beta pund give the other modifications to the mi	1.8	0.9	0	6.0-	-1.8	
oha beta p						

procedure to improve its performance. pruning iin max

- 12. Write a short notes on:
- (a) EM Algorithm
- (c) Backtracking (b) Support Vector Machine

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