CBCS Scheme

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USN		15CS562

Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018 **Artificial Intelligence**

		7,5	
Гіт	ie. 3	nrs	arks: 80
1 111	N.	ote: Answer any FIVE full questions, choosing one full question from each mo	dule.
	1 1	Module-1	
1	a. b.	State the algorithm for steepest ascent hill climbing along with its disadvantages. Solve the following cryptorithematic problem: SEND + MORE = MONEY.	(06 Marks) (10 Marks)
		OR	(0.4.7% 1.)
2	a.	Define Artificial Intelligence, and list the task domains of artificial intelligence.	(04 Marks)
	b.	Explain four categories of production system.	(04 Marks)
	c.	Explain problem characteristics with respect to heuristic search.	(08 Marks)
		Module-2	
3	a	Explain the frame problem.	(06 Marks)
3	a. b.	Write the algorithm for conversion to clause form.	(10 Marks)
	υ.	OR	
		Define Horn clause and give the syntactic difference between PROLOG and logi	c.
4	a.	Define Horn clause and give the syntactic synt	(,
	b.	Write the algorithm to unify (L ₁ , L ₂).	(06 Marks)
	c.	Write a note on conflict resolution	(06 Marks)
	0.	Module-3	
_		Define Frame. State the bayes theorem and explain the notations used.	(06 Marks)
5	a. b.	Write a note on Justification based Truth Maintenance System (JTMS).	(10 Marks)
	υ.		
		OR	(06 Marks)
6	a.	Write a note on closed world assumption.	(10 Marks)
	b.	Explain Bayesian network.	
		Module-4	(O.C. Mawks)
7	a	Define conceptual dependency, mention its goals along with representation.	(06 Marks) (10 Marks)
	b	1 1 VIII CAUIGHA	(10 Marks)
		OR OR	
0	0	XX 's also legisthm for	
8	a	i) Depth first iterative deepening ii) Iterative deepening - A*	(06 Marks)
	b	1-1-1 antology	(10 Marks)
	·	The state of the s	90
		Module-5 Module-5 A service of apoll checking techniques	(06 Marks)
9		Explain classification of spell checking techniques. Explain knowledge acquisition.	(10 Marks)
	ľ		_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		OR	(04 Marks)
1	0 8	Briefly explain four ways of handling sentences.	(06 Marks)
	1	Write a note on decision trees.	(06 Marks)
		What the election for candidate cuillinging.	

c. Write the algorithm for candidate elimination. * * * * *