P.T.O.

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00226

BICS-021

December, 2014

BICS-021: ARTIFICIAL INTELLIGENCE

Tin	ne : 3 i	hours Maximum Marks:	Maximum Marks : 70		
No	Note: Attempt any seven questions. All questions carry equal marks.				
1.	(a)	Differentiate between Intelligence and Artificial Intelligence.	5		
	(b)	Describe the breadth first search and depth first search techniques.	5		
2.	(a)	Explain the A* algorithm and illustrate the over-estimation and under-estimation of heuristics.	5		
	(b)	Describe the various types of control strategies.	5		
3.	(a)	What factors justify whether the reasoning is to be done in forward or backward reasoning?	5		
	(b)	What are the limitations in using propositional logic to represent the knowledge base?	E		

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4.	Expla repre	ain the concepts of Bayesian Network in esenting knowledge in an uncertain domain.	10
5.	(a)	Represent the following sentences in symbolic logic: (i) All that glitters is not gold. (ii) A drunkard is an enemy of himself.	5
	(b)	Describe Inductive learning with suitable examples.	5
6.	Expla search plann	nin the concepts of planning with state space h. How does it differ from partial order ning?	0
7.	(a)	Explain the various steps in natural language understanding process.	5
	(b)	Explain the minimax search producer with a neat illustration.	5
8.		ss the advantages of expert system secture based on decision tree and ction rules.	0
9.	What parse	do you understand by parsing? Draw r tree and define the grammar 16 "A boy ate the frog".	0
10.	(b)	any two of the	9