No. of Printed Pages : 3

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

Term-End Examination

December, 2016

00143

BICS-021 : ARTIFICIAL INTELLIGENCE

Time : 3 hours

Maximum Marks: 70

BICS-021

- **Note :** Attempt any **seven** questions. All questions carry equal marks.
- 1. (a) Explain intelligence and artificial intelligence systems with the help of suitable examples.
 - (b) Discuss with the help of an example, how conventional computing differs from intelligence computing.
- 2. Describe the resolution procedure which gains in efficiency as it operates on statements.
- 3. What do you understand by a conceptual dependency graph ? Give the conceptual dependency graph for the sentence "Mary drove her car to office" and describe the steps required for a program to transform the sentence to an internal conceptual dependency structure.

BICS-021

1

P.T.O.

10

5

5

10

4.	(a)	Discuss learning. Explain the various techniques used in learning.	5
	(b)	Discuss the basic elements of natural language procedure.	5
5.	-	ain the minimax search procedure with the of a neat diagram.	10
6.	with world	do you mean by forward chaining ? Explain the help of an example taken from the real d. Can you use forward chaining in stor-tree classification. Why/Why not ?	10
7.	work	t is an expert system ? Explain in short the ing of DENDRAL and MYCIN and discuss oncept of uncertainty in an expert system.	10
8.	from	is inferencing used in deriving conclusions the facts ? Differentiate between forward ing and backward chaining.	10
9.	(a)	What is a search technique ? Explain the hill-climbing algorithm.	5
	(b)	Trace the constraint satisfaction procedure for solving the following cryptarithmetic problem :	5
		CROSS + ROADS DANGER	
BICS-021		2	

10. Write short notes on any *two* of the following : $2 \times 5 = 10$

- (a) Mean-End Analysis
- (b) AO* Algorithm
- (c) Scripts

