

Student Name:	Printed Pages:
University Roll No.:	
School of Engineering Second Theory Sessional Examination Odd Semester (AS: 2024-25)	
B. Tech: CSE	[Year: 4 th] [Semester : 7 th]
Course Title: ARTIFICIAL INTELLIGENCE	Max Marks: 30
Course Code: BCS 3701	Time: 1 hrs
Instructions if any: Read the question Carefully.	

SECTION 'A'		Course Objective	Marks
Q.N.1. Attempt all parts of the following:			
a)	Differentiate between uninformed search and informed search.	CO1	1
b)	Define Horn Clause.	CO 1	1
c)	What are the components of Expert System.	CO 2	1
d)	Translate the following into predicate logic : "Rohan eats Mango".	CO 3	1
e)	Importance of LISP in AI.	CO 2	1
SECTION 'B'		Course Objective	Marks
Q.N.2. Attempt any two parts of the following:			
a)	Explain Hill Climbing and the problems faced during hill climbing methods.	CO 6	7.5
b)	Explain Pattern Recognition system with the help of a design.	CO 2	7.5
c)	Explain any one Expert system with a case study.	CO 4	7.5
SECTION 'C'		Course Objective	Marks
Q.N.3. Attempt any one parts of the following:			
a)	Differentiate forward chaining and backward chaining with examples.	CO 5	10
b)	Short notes on a) Expertise Transfer b) Self Explaining System.	CO 3	10
c)	Write a Lisp function to find the product of two numbers.	CO 6	10

Table 1: Mapping between COs and questions

COs	Questions Numbers	Total Marks
CO1	1a, 1b,	2
CO2	1c, 1e,, 2b,	9.5
CO3	1d, 3b	11
CO4	2c	7.5
CO5	3a	10
CO6	2a, 3c	17.5

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