| Student Name: | Printed Pages: 1 |
| University Roll No.: | |

School of Engineering

First Theory Sessional Examination

Odd Semester (AS: 2024-25)

B. Tech: CSE	[Year: 4th]	[Semester : 7th]	
Course Title: ARTIFICIAL INTELLIGENCE		Max Marks: 30	
Course Code: BCS 3701		Time: 1hrs	

Instructions: 1-Mention any assumptions made.
2-Notations have usual meaning.

SECTION 'A'

Q.N.1. Attempt all parts of the following:

		Course	Marks
a)	Define Artificial Intelligence. Is it different from intelligence?	CO1 Objective	1
b)	Differentiate between uninformed search and informed search.	CO2	1
c)	List various applications of Artificial Intelligence	CO1	1
d)	Difference between BFS and DFS.	CO2	1
e)	What do you mean by Visual Perception?	CO1	1

SECTION 'B'

Q.N.2. Attempt any two parts of the following:

		Course	Marks
a)	Explain the N-queens problem with example	CO2 Objective	7.5
b)	Describe the difference between language understanding and language generation with suitable examples	CO1	7.5
c)	State the problems faced during hill climbing methods	CO2	7.5

SECTION 'C'

Q.N.3. Attempt any one parts of the following:

		Course	Marks
a)	Define the water jug problem in AI. Also suggest a solution of it.	CO2 Objective	10

b)	Explain the role of Intelligent Agent in AI. Also explain all types of intelligent agents in details.	CO1	10
c)	What is the difference between stochastic hill climbing and first choice hill climbing method?	CO2	10

Table 1: Mapping between COs and questions

COs	Questions Numbers	Total Marks
CO1	1a, 1c, 1e, 2b, 3b	20.5
CO2	1b, 1d, 2a, 2c, 3a, 3b	37