School of Engineering
First Theory Sessional Examination
Odd Semester (AS: 2024-25)

B. Tech: CSE -AI , CSE-CCML [Year: 1st] **[Semester :1st**

Course Title: Basics of Artificial Intelligence **Course Code: NCS4102**	**Max Marks: 30** **Time: 1*hrs***

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

	SECTION 'A' **Q.N.1. Attempt all parts of the following:**	**Course Objective**	**Mark**
a)	Define Perception in Artificial Intelligence.	CO 1	1
b)	Explain the definition of AI.	CO 1	1
c)	Write the components of AI.	CO 1	1
d)	Explain the term PEAS about agent.	CO 1	1
e)	Explain about Sensors &Actuators.	CO 1	1
	SECTION 'B' **Q.N.2. Attempt any two parts of the following:**	**Course Objective**	**Marks**
a)	Discuss the historical evolution of Artificial intelligence.	CO 1	7.5
b)	Explain about Soft Computing & also write differences between hard & soft computing?	CO 1	7.5
c)	Explain types of AI in detail?	CO 1	7.5
	SECTION 'C' **Q.N.3. Attempt any one part of the following:**	**Course Objective**	**Marks**
a)	Define Fuzzy set and write the operations of Fuzzy sets.	CO 1	10
b)	Explain types of AI agents in detail.	CO 1	10
c)	Explain types of Nature Inspired Algorithms in detail.	CO 1	10

Table 1: Mapping between COs and questions

COs	Questions Numbers	Total Marks
CO1	1(a),1(b),1(c),1(d),1(e),2(a),2(b),2(c),3(a),3(b),3(c)	57.5
CO2	NA	0