

School of Computer Science Engineering and Information Systems Fall Semester 2023-2024

Continuous Assessment Test - II

Programme Name & Branch:

ch: B.Tech IT

Course code: Class Number (s):

BITE308L

Faculty Name (s):

Course Name: Artificial Intelligence VL2023240503947, 3945, 3939, 3963

Prof. Hemalatha S, Prof. Chiranji Lal Chowdhary, Prof.Jayalakshmi P, Prof. Subhashini R

Exam Duration:

90 Mins

Maximum Marks: 50

Q.No.	Question	Max Marks
<i>y</i>	For an AI system of UNIVERSITY COURSE REGISTRATION, describe how frames can be used to represent knowledge in that context. Provide examples of entities, attributes, and relationships within this scenario. Devise the necessary frames and their attributes with one example for each frame. Mention if any frame is linked as an attribute of another frame.	10
2.	Represent the following statements with Propositional logic. It is not the case that both it is raining and the sun is shining. Neither it is raining nor is the sun shining. The sky will have rainbow, if it rains. Being divisible by 2 is a necessary and sufficient condition for being an even number. Arun and Varun both know arithmetic Represent the following statements with Predicate logic.	5 5
	No dogs can speak human languages. Apoorva is fond of all tall trees. All prime numbers are integers. No student likes any exam There is some course that every student has taken	
8.	Given the following statements: All hounds howl at night. Anyone who has any cats will not have any mice. Light sleepers do not have anything which howls at night. V. John has either a cat or a hound Prove that "If John is a light sleeper, then John does not have any mice." is true by Resolution.	10