



केन्द्रीय जनजातीय विश्वविद्यालय आन्ध्रप्रदेश
Central Tribal University of Andhra Pradesh

(A Central University Established by an act of Parliament)

2nd MID term Examinations - March 2025

SEMESTER – IV

Subject

: Introduction to Artificial Intelligence (MAJOR - I)

Subject Code

: BAI251

Program of Study : B.Sc. Artificial Intelligence (Honors/Honors with Research)

Part-A

1x5=5

Answer all the questions. Each Carries 1 mark.

1. Differentiate between Predicate Logic and Propositional Logic?
2. PROLOG stands for?
3. Name various types of knowledge ?
4. What type of inference mechanism does Prolog use?
5. In a semantic network, what do edges represent?

Part-B

5x1=5

Answer either A or B short answer question. Question carries 5 marks

6 A). How does Semantic Network Representation work? Explain with an example ?
(OR)

B). Define Prolog and its purpose? Explain Prolog's use of facts, rules and queries?

Part-C

10x1=10

Answer either A or B long answer question. Question carries 10 marks

7 A). Write the following programs in PROLOG ?

- i) Write a program on FAIL predicate to find all solutions?
- ii) Write a program to implement Login mechanism without recursion ?

(OR)

B). Explain about the following?

- i) Computable Functions and Predicates
- ii) Forward versus Backward Reasoning and Resolution