Biyani Girls College
Mid Term Examination 2025-26
BCA V Sem.
Subject- Artificial Intelligence & Machine Learning
(BCA-75T-301)

Time: 3 Hrs.   **MM: 80**

[I]Very short answer questions.   **(10 * 2 = 20)**

Q1. What do you mean by proposition?

Q2. What is relation between AI and ML?

Q3. What do you mean by solution state space tree?

Q4. Write predicate for the sentence: All boys who lives in Jaipur are intelligent.

Q5. Write challenges in ML.

Q6. What do you mean by model overfitting?

Q7. Write any 4 applications of ML.

Q8. What do you mean by linear regression?

Q9. What is monkey banana problem?

Q10. What is difference between primary data and secondary data?

[II]Long questions.   **(4 * 15 = 60)**

Q1. What do you mean by Knowledge? Explain types of knowledge. Also explain approaches for
 knowledge representation.

Q2. Explain resolution in Predicate logic with example. Also check validity of following argument using
 this principal:
 John like all kind of food. Coconuts are food. Anything anyone eats and is not died then it is food.
 Bill eats
 Peanut and still alive. Sue eats everything Bill eats. Died means not alive. So "John like peanut".

Q3. Explain Water Jug problem and game playing in AI in detail with examples.

Q4. What do you mean by Machine Learning? Explain workflow of it. Also explain types of Machine
 Learning.