Faculty of Engineering and Technology
University of Lucknow
ARTIFICIAL INTELLIGENCE
MCA-2ND YEAR
Assignment

1. Differentiate between prepositional & predicate logic.
2. What is clausal form? How is it useful?
3. What do you mean by resolution? Explain the process of resolution with suitable example.
4. Define unification. What are semantic nets?
5. What are frames? How do they differ from semantic nets?
6. Mention the frame manipulation primitives.
7. Define forward and backward chaining. Differentiate the same.
8. Explain probabilistic reasoning. What is the use of certainty factor?
9. Describe Bayes theorem.
10. Define Non monotonic reasoning.
11. What are Bayesian networks? Give an example.
12. What is fuzzy logic? What is its use?
13. Explain the process of fuzzification and defuzzification.
14. Differentiate between crisp sets and fuzzy sets.
15. Explain membership function in detail.
16. Define neural network. Also explain the working of neural network.
17. What is activation function? Explain various types of activation functions.
18. What are the types of neural network architecture? Explain it in detail.