



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)**

Questions on Module No.01

Q.1 Define Deep Learning? Explain types of Neural Networks?

Q.2 Differentiate between DL and ML using following points?

Data Dependency

Hardware Dependency

Training Time

Feature Selection

Interpretability

Q.3 Why is Deep Learning so popular and in demand these days? Explain using following points.

1. Datasets

2. Frameworks

3. Model Architecture

4. Hardware

5. Community

Q.4 Differentiate between a biological neuron and artificial neuron.

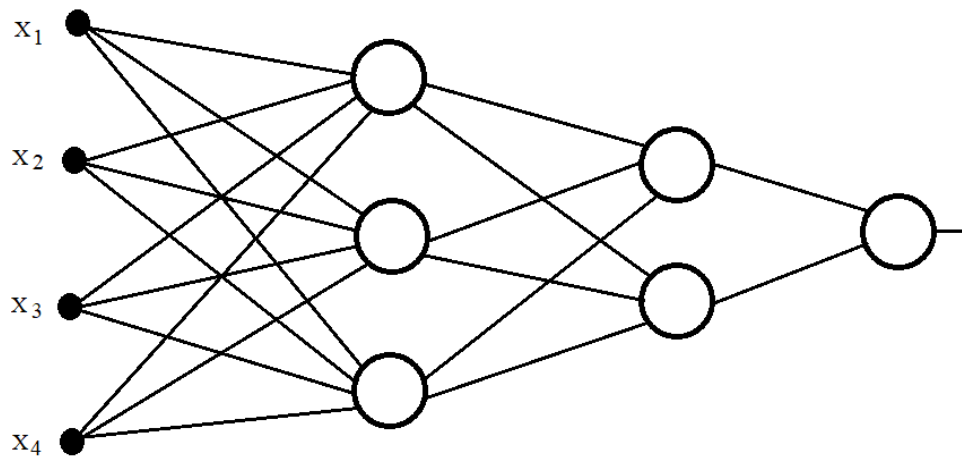
Q.5 What is perceptron? explain key components of a perceptron.

Q.6 What is Multilayer Perceptron? explain how it overcomes limitations of perceptron.



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Q.7 Use proper notations (naming conventions) for the following neural network and find total as well as layer wise trainable parameters.



Q.8 Explain any five basic terminologies of Deep Learning

Q.9 Implement AND function using perceptron rule.

Q.10 Implement AND function using perceptron rule.