

BE Semester-VIII (Information Technology) Question Bank

(Soft computing & Neural Network)

All questions carry equal marks(10 marks)

Q.1	Explain different parts of human brain.
Q.2	Explain model of an artificial neuron.
Q.3	Explain Adaline.
Q.4	Explain Neural Network architecture.
Q.5	Explain Unsupervised Learning Neural Networks.
Q.6	Explain Supervised Learning Neural Networks.
Q.7	Explain Competitive Learning Networks .
Q.8	Explain Kohonen Self-Organizing Networks.
Q.9	Explain Hebbian's Learning.
Q.10	Explain backpropagation algorithm.
Q.11	Explain learning in neural network.
Q.12	Write application of neural network.
Q.13	Explain basic Fuzzy Set Operations.
Q.14	Explain Membership Function.
Q.15	Explain Fuzzy Rule based system.
Q.16	Differentiate fuzzy and crisp sets.
Q.17	Explain Fuzzy Inference Systems
Q.18	Write application of Fuzzy logic.
Q.19	Explain Fuzzy Relations.
Q.20	Explain Fuzzy Reasoning.
Q.21	Explain Adaptive Neuro-Fuzzy Inference Systems
Q.22	Difference between Traditional Algorithms and Genetic Algorithm.
Q.23	Explain creation of offspring.
Q.24	Explain binary encoding.
Q.25	Explain octal encoding.
Q.26	Explain permutation encoding.
Q.27	Explain fitness function.
Q.28	Explain roulette wheel selection.
Q.29	Explain Boltzman selection.
Q.30	Explain reproduction process.
Q.31	Explain Cross Over process.
Q.32	Explain Neuro-Fuzzy Systems.
Q.33	Write application of genetic algorithm.
Q.34	Explain ANFIS.
Q.35	Explain RBFN.
Q.36	Explain Evolving Connectionist model.
Q.37	Write applications for Adaptive Systems
Q.38	Explain fuzzy associative memory.
Q.39	Explain Neuro-Genetic hybrid Systems.
Q.40	Explain genetic algorithm based backpropagation network.