

PART – B (5 * 4 = 20)

Answer ALL Questions

Answer should not exceed 200 words or one page

11. (a) Describe briefly the basic concepts of Neural Network
(OR)
11. (b) Discuss the simple model of an artificial neuron
12. (a) List out parameters in BPN and explain any two parameters in Back Propagation Network
(OR)
12. (b) Explain the applications of Adaptive Resonance Theory
13. (a) Write short notes on Crisp set operations
(OR)
13. (b) Explain briefly the Defuzzifications and its reverse process
14. (a) What is Genetic Algorithms? Explain the working principle of genetic algorithm
(OR)
14. (b) Explain value encoding and tree encoding with example
15. (a) Briefly explain the multilevel optimization
(OR)
15. (b) Explain the principle of a fuzzy genetic algorithm

PART – C (5 * 7 = 35)

Answer all questions

Answer should not exceed 600 words or three pages

16. (a) Discuss single layer and multilayer feed forward network with diagram
(OR)
16. (b) Discuss the basic concepts of any four learning methods in brief
17. (a) Discuss the architecture of the augmented BP neural networks
(OR)
17. (b) Discuss the architecture of ART1 with diagram
18. (a) Explain the following with example
(i). Fuzzy membership functions
(ii). Union and Intersection fuzzy sets
(OR)
18. (b) Explain the following
(i). CRISP Logic (ii). Predicate Logic
19. (a) What is reproduction? Explain roulette wheel selection in detail
(OR)
19. (b) Discuss the basic concept of cross over and mutation in brief
20. (a) Describe the advances in GA* over the other traditional methods
(OR)
20. (b) Describe the case study of medical Decision support system
