

M.E. Second Semester (Electrical (Electronics & Power) Engineering) (New-CGS)
13326 : Elective-II : Neuro Fuzzy Control : 2 EEPME 4

P. Pages : 2

Time : Three Hours



AU - 3419

Max. Marks : 80

SECTION - A

1. a) What is Fuzzy partition? Explain. 6
b) Explain centroid method of defuzzification. 7

OR

2. a) State and explain properties of fuzzy sets. 6
b) Explain the concept of Truth Tables. 7
3. a) Explain TKS architecture. 6
b) Draw and explain Fuzzy PD controller. 7

OR

4. a) Explain assumptions of fuzzy control system design. 6
b) Explain the Design of vehicle speed control system fuzzy controller. 7
5. a) Design neural network to implement the logical Boolean function XOR. 6
b) Explain back propagation algorithm. 7

OR

6. a) Derive back propagation rule for output neuron with sigmoid activation function. 6
b) Sketch and explain feed forward neural network. 7

SECTION - B

7. a) Explain neural network identified model. 6
b) How neural network can be designed in direct neural network application. 7

OR

8. a) Explain simulation of PI control neural networks. 6
b) Develop & explain model for temperature control. 7
9. a) Explain ANFIS learning Algorithm. 7

- b) Explain fuzzy Neural system.

7

OR

10. a) Explain Neuro fuzzy control with block diagram.

7

- b) Explain Hybrid neural net.

7

11. a) Design fuzzy logic control system for synchronous generator set.

7

- b) Design neuro fuzzy control system for integrated pest management.

7

OR

12. a) Explain fuzzy logic based control for Thermo-electric cooling of laser materials.

7

- b) Design Neuro - fuzzy control system in order to identify trash in cotton.

7

Whatsapp @ 9300930012

Your old paper & get 10/-

पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से