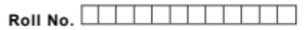


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Total No. of Pages : 02

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B.Tech.(ECE) (2012 to 2017 E-III) (Sem.-7) NEURAL NETWORKS & FUZZY LOGIC Subject Code : BTEC-916 M.Code : 71921

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

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Answer briefly :

- Compare LMS and Perceptron Learning Laws.
- 2. Explain solving EXOR problem using RBF.
- 3. What is an expert system?
- 4. Differentiate between crisp and fuzzy set theory.
- 5. Explain Recurrent Neural Network.
- 6. What is inferential knowledge?
- 7. What are various activation functions used in ANN.
- 8. What is rule based learning?
- 9. Write various features of Kohonen's self organizing learning algorithm.
- 10. Define any two Fuzzy set operations with example.

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SECTION-B

- 11. What is Hopfield net? Discuss the relation between the stable states of Hopfield net and the graded version of model.
- 12. Explain CMAC Networks.
- 13. Explain Boltzmann Machine with architecture and algorithm.
- 14. Differentiate between Mamdani and Sugeno Fuzzy Inference System.
- 15. Explain the different learning rules used in neural network.

SECTION-C

- 16. Explain the various Defuzzification techniques.
- instrancer.com 17. Compare Fuzzy Logic Controller with PID controller.
- 18. Explain FLS for Antilock Braking System.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.



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