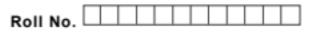


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Total No. of Pages : 02

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B.Tech. (ECE) (2012 to 2017 E-II) (Sem.-7) ARTIFICIAL INTELLIGENCE TECHNIQUES & APPLICATIONS Subject Code : BTEC-911 M.Code : 71915

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

Answer briefly :

- 1. What do you mean by the term perceptron?
- What do you mean by AI?
- 3. What is an expert system?
- Differentiate between crisp and fuzzy set theory.
- 5. Define Adaline and Madaline.
- 6. How fuzzy sets are defined in Fuzzy Logic?
- 7. State the Bayes' rule.
- 8. List the problem formulation steps in AI.
- 9. What do you mean by mutation?
- 10. Mention the criteria for the evaluation of a search strategy.

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SECTION-B

- 11. Explain any two types of neural networks.
- 12. Differentiate between single and multi point crossover operations.
- 13. Explain the string coding of chromosomes.
- 14. Differentiate between Mamdani and Sugeno Fuzzy Inference System.
- 15. Explain features of Fuzzy Logic and Neural Network toolbox in MATLAB.

SECTION-C

- 16. Explain the various Defuzzification methods.
- 17. Explain FLS for Antilock Braking System.
- 18. Explain GA in route planning for Travelling Sales Person.

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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