

Code No: **R4202A**

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Set No. 1

IV B.Tech II Semester Supplementary Examinations, April/May - 2017 **AI TECHNIQUES** (Electrical and Electronics Engineering) Time: 3 hours Max. Marks: 75 **Answer any FIVE Questions** All Questions carry equal marks **** 1 a) Explain briefly about the concept of knowledge representation learning process and learning tasks? [8] b) Explain about the concepts of humans and computers in AI? [7] 2 a) Describe neural network models and architecture? [8] b) Explain discrete, continuous and multi-category perception models? [7] 3 Explain briefly about the concept of RBF algorithms? [15] Explain about reproduction operators concept in genetic algorithms? 4 a) [8] b) Explain briefly about the concept of binary encoding? [7] 5 a) Explain about the concept of mutation operator? [8] b) Explain about generational cycle? [7] Describe fuzzy set operations and relations? 6 a) [8] b) Define uncertainty? What are the membership functions with schematic? [7] 7 a) Explain briefly about the concept of membership value assignment? [8] b) Explain development of rule base and decision making system in fuzzy logic [7] system? 8 How do you control the load frequency in power system by using fuzzy logic [15] controller?

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