B. R. A. BIHAR UNIVERSITY
MUZAFFARPUR
MODEL -Q- OF MCA COURSE
(CS 403: Soft Computing)

Q. 1. Discuss and explain about Artificial Neural Model.

Q. 2. Define ANN Architecture. Also discuss classification Taxonomy of ANN Connectivity.

Q. 3. Discuss and explain about Learning Strategy in detail.

Q. 4. What do you mean by Learning Rules? Explain briefly about Error Correction.

Q. 5. Write and explain about Pattern Clustering. Explain with suitable example.

Q. 6. What do you mean by Function Approximation? Explain.

Q. 7. Write and explain about Boltzmann Machine. Explain through a neat diagram.

Q. 8. Discuss and explain about Hopfield Neural Network.

Q. 9. Briefly explain the Kohonen's Self-Organizing Maps.

Q. 10. Define Fuzzy Set Theory. Also explain its basic operations.

Q. 11. What do you mean by basic concepts of evolutionary computing?

Q. 12. Discuss and explain genetic operators. Also describe fitness function and selection.

Q. 13. Write and explain basic concept of Rough Set Theory.

Q. 14. What are the roles of lower and upper approximation?

Q. 15. Discuss and explain about decision systems based on rough approximation.

Q. 16. Write short note on any two the following:

a) Neural dynamics b) Fuzzification c) Pattern Association

d) Vector Machines e) Generic Programming f) Prediction.

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