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Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **CO454C - Elective III-Fuzzy Logic and Neural Network**

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Maximum Marks : **60**   Duration : **3 Hrs**

[Edit] [Print] [View Answer Key] [Close] **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. *All questions are compulsory.*
2. *Solve any two sub questions from Que No. 1, 2 and 3*
3. *All the sub questions in Que No. 4 and 5 are compulsory*
4. *Illustrate your answer with suitable figures/sketches wherever necessary.*
5. *Assume suitable additional data; if required.*
6. *Use of logarithmic table, drawing instruments and non programmable calculators is allowed.*
7. *Figures to the right indicate full marks.*

1) a)	**Compare supervised and un-supervised neural learning**	[6]
b)	**Draw and explain MADALINE Network**	[6]
c)	**Draw and explain McCulloch-Pitts model of neuron**	[6]
2) a)	**Draw and explain architecture of a radial basis function network**	[6]
b)	**State and explain various steps in the backpropagation learning algorithm?**	[6]
c)	**Draw and explain Bi-directional associative memory**	[6]
3) a)	**State and explain Kohonen Algorithm**	[6]
b)	**Draw and explain Hopfield recurrent neural network**	[6]
c)	**Draw and explain application of neural networks in pattern recognition**	[6]
4) a)	**Write and explain properties of fuzzy set**	[6]
b)	**Explain fuzzification process with suitable example**	[6]
5) a)	**Draw and explain the application of fuzzy control system in share market analysis**	[6]
b)	**How neural networks are used in natural language processing**	[6]

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