

St. Mira's College for Girls, Pune
 (Autonomous-Affiliated to Savitribai Phule Pune University)
 Class-F.Y.M.Sc(C.S)
 Subject: Soft Computing
 Subject Code:MS31903
 Semester: III
 Year: 2019-20

All Units - focusing on Skill Development, Employability and Entrepreneurship

Supplement No. 2544
 Roll No. : 5903

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27/9/19

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 Class: SYMISC
 Subject: Soft computing

Exam Test II

Q2.

a. Define Artificial Neural Network.

→ An ANN is an information processing system which is inspired the way biological nervous system such as brain processes information.

① The key element of ANN is the neural structure.

It consists of interconnected elements which in unison solve a specific problem.

ANN learns from examples.

② Compare and contrast Neuron signal function and AN.

Neuron	Artificial Neuron
1. Memory can be lost	1. Once memory is stored it can be retrieved any time
2. The information it stores is 10 ¹⁰ and interconnected nodes are 10 ¹⁵	2. Here it is not fixed
3. It is less faster than Artificial Neuron	3. It is faster than Biological neuron

③ Write any two components of ANN.

→ The components of ANN are:
 1. Neuron
 2. Learning Rule.

④ Define linear separability.

The separation space between the input region and output region is same, i.e. linear.

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