**Shri Shivaji Education Society Amravati's**

**SCIENCE COLLEGE**

**DEPARTMENT OF COMPUTER SCIENCE**

**Congress Nagar, Nagpur.**

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**M.Sc. – Semester - III** **Name of Student: -** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Subject:** - Practical – II (Paper – III [Neural Network])

| **Sr. No.** | **Name of Practical** | **Page No.** | **Date** | **Signature** |
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| 1.  2.  3.  4.  5.  6.  7.    8.  9.  10. | Write a MATLAB program to generate a few activation  functions that are being used in neural networks.  Generate ANDNOT function using McCulloch-Pitts neural net by a MATLAB program.  Generate XOR function using McCulloch-Pitts neuron by writing an M-file.  Write a MATLAB program for perceptron net for an AND function with bipolar inputs and targets.  With a suitable example demonstrate the perceptron learning with its decision region using MATLAB. Give the output in graphical form.  Develop a MATLAB program for OR function with bipolar inputs and targets using Adaline Network.  Develop a MATLAB program to perform adaptive prediction with adaline.  Write a M-file for adaptive system identification using adaline network.  Develop a MATLAB program for adaptive noise cancellation using adaline network.  Write a MATLAB program for approximating two 2-dimensional functions using Back Propagation in batch mode. | ---  ---  ---  ---  ---  ---  ---  ---  ---  --- | -----------------  -----------------  -----------------  -----------------  -----------------  -----------------  -----------------  -----------------  -----------------  ----------------- |  |