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PAPER CODE	
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May 2022 (ENDSEM) EXAM
T.Y./ B. TECH. (SEMESTER – II All branches)
COURSE NAME: Artificial Neural Network in Engineering
COURSE CODE: IOEUA32185D
(PATTERN 2018)
MARKING SCHEME

Time: [1Hr]

[Max. Marks: 30]

Solution and Marking scheme

- Q.1**
- a) Explain overfitting of an ANN – [2]
How to avoid overfitting? [2]
 - b) Statistical parameters for model evaluation
Mean, mode, median, standard deviation, kurtosis, [6]
skewness

OR

- Q2**
- b) fix number of input neurons, output neurons and hidden [3]
neurons?
Discuss the data preprocessing [3]
 - a) SOFM: working, figure [4]
 - b) 3 differences [6]
- OR**
- b) 3 differences [6]

- Q.3**
- a) type of ANN, variables used, architecture, training algorithm, [4]
transfer functions,
 - b)
- 1. Input and output variable(s) [1]
 - 2. Architecture with figure [2]
 - 3. Size of weight and bias matrix [2]
 - 4. Activation functions, performance function [1]

OR

- c)
- 1. Input and output variable(s) [1]
- 2. Architecture with figure [2]
- 3. Size of weight and bias matrix [2]
- 4. Activation functions, performance function [1]