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SEAT No. :

P37

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APR-17/BE/Insem - 41

B.E. (Electrical)

INTELLIGENT SYSTEMS AND ITS APPLICATION IN
ELECTRICAL ENGG.

(2012 Pattern) (Semester - II)

Time :1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right indicate full marks.
- 3) Your answers will be valued as a whole.

Q1) a) Draw and Explain Biological brain model. [5]

b) If $W = [1 \ 2 \ 1]$ $P = [0.5 \ 0.8 \ 0.9]^T$ [5]

$b = [0.5]$ find activation function for sigmoidal T. F.

OR

Q2) a) Explain single Neuron model with neat sketch. and give activation function. [5]

b) Give list of various ANN architectures and explain any one. [5]

Q3) a) Explain MLP. [5]

b) Explain Learning rule for perceptron [5]

OR

Q4) a) Explain supervised and unsupervised learning methods. [8]

b) Explain perceptron model. [2]

Q5) a) What is BAM. [5]

b) What is associative memory. [5]

OR

Q6) Explain ART -1 Architecture with neat sketch. [10]

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