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SEAT No. :

PB-386

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[6270]-198

B.E. (AI & DS) (Insem.)

DEEP LEARNING

(2019 Pattern) (Semester - VIII) (417532(D)) (Elective - V)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Attempt Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Use of electronic pocket calculator is allowed.*
- 3) *Assume suitable data, if necessary.*
- 4) *Neat sketches must be drawn wherever necessary.*

- Q1)** a) What are the Advantage and challenges of deep learning. [5]
b) Describe Back propagation training algorithm. [5]
c) State any five applications of deep learning. [5]

OR

- Q2)** a) Describe under fitting, over fitting and bias variance trade-off. [5]
b) Describe any five activation functions. [5]
c) What are Hyper parameters? Explain any 2 in brief. [5]

- Q3)** a) Differentiate between biological and artificial neuron. [5]
b) Describe Multilayer Feed-Forward Networks. [5]
c) How to select a particular activation function? Explain with example. [5]

OR

- Q4)** a) Explain loss functions. How to choose output and loss function? Give an example. [5]
b) Explain Loss Functions for Reconstruction. [5]
c) Mention Different Optimization algorithms in Deep Learning. [5]

