

Total No. of Questions : 8]

SEAT No. :

PB2257

[6263]-95

[Total No. of Pages : 2

B.E. (Computer Engineering)

DEEP LEARNING

(2019 Pattern) (Semester - VIII) (410251)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagrams must be drawn whenever necessary.*
- 4) *Make suitable assumption whenever necessary.*

- Q1)** a) Explain CNN architecture with its application. [6]
b) What is Padding? Enlist and explain types of padding. [6]
c) Explain Dropout Layer in Convolutional Neural Network. [6]

OR

- Q2)** a) Define ReLU. Explain disadvantages of ReLU. [6]
b) What is Strides in CNN? Explain in brief. [6]
c) Explain Pooling Layer with its different types. [6]

- Q3)** a) Explain RNN with its types. [6]
b) Explain in brief Encoder Decoder architecture. [6]
c) Explain Different types of Deep Learning. [5]

OR

- Q4)** a) WSN on Performance Matrices. [6]
b) Compare implicit and explicit memory. [6]
c) What are default baseline models? Explain in brief. [5]

- Q5)** a) State and explain different types of GAN. [6]
b) What is Boltzmann machine? Explain its objectives. [6]
c) Write short Note on Deep generative model and Deep Belief Networks. [6]

OR

P.T.O.

- Q6)** a) Define Boltzmann machine? State and Explain its types. [6]
b) Explain Discriminator network. [6]
c) Enlist and Explain applications of GAN. [6]

- Q7)** a) What is Reinforcement Learning? State and explain its advantages and disadvantages. [6]
b) What are different types of Reinforcement Learning? Explain in brief. [6]
c) Compare Active and Passive Reinforcement Learning. [5]

OR

- Q8)** a) Write short note on Deep Q-Learning. [6]
b) What are different characteristics of Reinforcement Learning? [6]
c) Explain in detail Dynamic programming algorithms for reinforcement learning. [5]

