[6263]-95
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

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]**

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