| Total No | o. of Questions : 8] SEAT No. : |
|------------------|--|
| P663 | 1 Total No. of Pages : 2 |
| | [6181]=193 |
| | B.E. (Information Technology) |
| | DEEPEEARNING |
| | (2019 Pattern) (Semester - VII) (414443) |
| | ½ Hours] [Max. Marks : 70 ions to the cardidates: |
| 111311 acı 1) | Answer 1/2,3/4, 5/6, 7/8 questions. |
| 2) | Assume Suitable data jf necessary. |
| 3) 4) | Neat diagrams must be drawn wherever necessary. |
| <i>4)</i> | Figures to the right side indicate full marks. |
| Q1) a) | Discuss Feed-Forward Neural Networks vs Recurrent Neural Networks.[8] |
| b) | Explain Recurrent Neural Networks and types of Recurrent Neural Networks. [9] |
| Q2) a) | Explain Long Short-Term Memory Networks (LSTM) in detail. [8] |
| b) | Explain Encoder Decoder architectures, Recursive Neural Networks.[9] |
| Q3) a) | Discuss different types of Applications of Autoencoders. |
| b) | Describe Denoising Autoencoders, Contractive Autoencoders. [9] |
| | OR OR |
| Q4) a) | Explain Regularized Autoencoders-Sparse Autoencoders. [9] |
| b) | State and explain Undercomplete Autoencoders. [9] |
| Q5) a) | Discuss Greedy Layer wise Pre-training methods. [9] |
| b) | Explain Dense Net in detail. [9] |
| | O.D. |

| Q6) | a) | Elaborate Variants of CNN in detail. | [9] |
|-------------|----|---|--|
| | b) | Explain Transfer Learning and Domain Adaption. | [9] |
| Q 7) | a) | Discuss Speech Recognition using Deep Learning. | [9] |
| | b) | Explain Recommender system in detail. OR | [8] |
| Q8) | a) | What are Image Classification Techniques. | [9] |
| | | Explain Natural Language Processing in detail. | [8] |
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