

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - VI Computer Science & Engineering-AI & ML : WINTER : 2024
SUBJECT: DEEP LEARNING

Day : Saturday
Date : 30/11/2024

W-23971-2024

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.

- 1) **All Questions COMPULSORY**
- 2) Figures to the right indicates **FULL** marks.
- 3) assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

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- Q. 1 Explain machine learning and steps for developing machine learning models (10)
- OR**
- Q. 1 Explain Neural Network multilayer perceptron. (10)
- Q. 2 Differentiate between machine learning and deep learning. (10)
- OR**
- Q. 2 Explain Auto Encoder's in details (10)
- Q. 3 Explain in details Regularization and its types. (10)
- OR**
- Q. 3 Why CNN is preferred over ANN for Image classification tasks even though it is possible to solve image classification using ANN (10)
- Q. 4 Explain transfer learning techniques in details (10)
- OR**
- Q. 4 Describe Dense Net Architecture in details (10)
- Q. 5 Explain BPTT for training RNN in details (10)
- OR**
- Q. 5 Describe sequence learning problem. (10)
- Q. 6 Explain Deep Belief network in detail. (10)
- OR**
- Q. 6 Explain Regularized auto in coeds and stochastic Encoders in details. (10)

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