

FACULTY OF SCIENCE
B.Sc. (CBCS) III-Year (VI-Semester) Regular Examinations, June-2023
Data Science-VI (B)
Deep Learning

Time: 3 Hours

Max Marks: 80

SECTION-A

(4x5=20 Marks)

Answer any Four questions from the following

1. Explain how to manipulate Tensors in numpy.
2. Write about Broadcasting.
3. Write about Gradient Base Optimization.
4. Explain about Theano Library.
5. Write about Loss Functions and Optimizers.
6. Write about Scalars (0D Tensors)

SECTION-B

(4x15=60 Marks)

Answer all the following questions

7. (a) Explain about Time series data and Vector data.
(OR)
(b) What are Key attributes. Explain about 3D Tensors and High Dimensional Tensors?
8. (a) Explain in detail about Tensor Operations.
(OR)
(b) Explain about the Geometrical representation of Deep Learning.
9. (a) Explain about the Back Propagation algorithm.
(OR)
(b) Explain about Stochastic Gradient Descent.
10. (a) Explain about LSTM and GRU Layers.
(OR)
(b) Explain about Recurrent Layers in Keras.