QP Code: 8385QP

Seat No.	

Total No. of Pages: 3

Winter Examination Oct/Nov 2023

Subject Name: B.Tech. CBCS_67826_84720_84986 _ Deep Learning_21.11.2023_10.30 AM To 01.00 PM
Subject Code: 84720

Day and Date: - Tuesday, 21-11-2023 **Total Marks: 70**
Time: - 10:30 am to 01:00 pm

Instructions.:
1) All questions are compulsory

Q.1. **Solve All the Questions [1 * 14 = 14]** **[14]**

A tensor that contains only one number is called____.
A. Scalar
B. Numpy
C. Matrics
D. None

2. How do we perform caculations in TensorFlow?
A. We launch the computational graph in a session
B. We launch the session inside a computational graph
C. By creating multiple tensors
D. By creating data frames

3. Convolutional Neural Network is used in _____
A. Image classification
B. Text classification
C. Computer Vision
D. All of the above

4. Which of the following is/are Common uses of RNNs?
A. Businesses Help securities traders to generate analytic reports
B. Detect fraudulent credit-card transaction
C. Provide a caption for images
D. All of the above

5. which is not input branches consist in model?
A. Number
B. Text description
C. Picture
D. Metadata

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6. What is used to generate sequence data? **[14]**
A. Convolutional network
B. Neural network
C. Sequential network
D. None of above
7. Deep learning works well despite of ___ problems
A. High capacity (susceptible to overfitting)
B. Numerical instability
C. Sharp minima
D. All of the above

8. Keras is used at__working on a wide range of problem.
A. Google
B. Netflix
C. Uber
D. All of the above

9. _____ reduces each channel in the feature map to a single value.
A. Max Pooling
B. Average Pooling
C. Global Pooling
D. None of these

10. RNN remembers each and every information through___.
A. Work
B. Time
C. Hours
D. Memory
11. Many recently developed neural architectures require _____ topology.
A. Linear topology
B. Non-linear network topology
C. Directed topology
D. Undirected topology
12. _____ has been successfully applied to speech synthesis and to dialogue generation for chatbots.
A. Sequence data generation
B. Generative data generation
C. Both A and B
D. None of the above
13. Where we can directly manipulate data?
A. TensorFlow
B. TensorBoard
C. Functional API
D. None of the above.
14. The smart reply feature that Google released in _____.
A. 2013
B. 2015
C. 2016
D. 2011

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Q.2. **Solve Any Two Questions [2 * 7 = 14]** **[14]**

1. Why tensors are used in deep learning?

2. What is a computation graph in deep learning? State the use of it in deep learning.

3. What are different steps for training ConvNet from starch for small dataset?.

Q.3. **Solve Any Two Questions [2 * 7 = 14]** **[14]**

1. Explain the working of neural network in deep learning?

2. Define Tensor, Rank of Tensor and shape of tensor?

3. What is the difference between CNN and RNN?

Q.4. **Solve Any Two Questions [2 * 7 = 14]** **[14]**

1. What are the types of RNN?

2. Briefly explain multi-input models and multi-output models.

3. What is Variational autoencoders?

Q.5. **Solve Any Two Questions [2 * 7 = 14]** **[14]**

1. Explain LSTM with diagram

2. Explain the Directed acyclic graphs of layers with neat diagram

3. Explain the concept of image editing.

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