First and last name .....

Question 1/20

TensorBoard can be used for:

A. Tracking and visualizing metrics such as loss and accuracy
B. Viewing histograms of weights, biases, or other tensors as they change over time
C. All of these
D. Visualizing the model graph (ops and layers)

Question 2/20

Which neural network architecture would be suitable to find the next word in a given sentence?

A. Restricted Boltzmann
B. Convolutional Neural Network
C. Recurrent Neural Network Machine
D. Fully-Connected Neural Network

Question 3/20

Which API is a deep learning wrapper on TensorFlow

A. Keras
B. PyTorch
C. Python
D. Sklearn

Question 4/20

Translation of sentence from French to English is based on _____

A. one-to-one RNN model
B. Many-to-many RNN model
C. one-to-many RNN model
D. many-to-one RNN model

Question 5/20

.Dropout refers to _____

A. randomly dropping layers in a deep neural network
B. None of these
C. dropping input neurons
D. randomly dropping out neurons at different layers

Question 6/20

Which of the following statement is not correct?

A. It can be used in image processing
B. Neural networks mimic the human brain
C. None
D. It can only work for a single input and a single output

Question 7/20

In which of the following applications can we use deep learning to solve the problem?

A. sentiment analysis
B. computer vision
C. All of the these
D. Protein structure prediction

Question 8/20

Which gate is not available in Gated Recurrent unit

A. Update gate
B. Forget gate
C. Relevance gate
D. None of these

Question 9/20

Which of the following methods can be used for data augmentation technique in image recognition tasks?

I. Horizontal flipping
II. Random cropping
III. Random scaling
IV. Color jittering
V. Random translation
VI. Random shearing

A. II,III,IV,V,VI
B. All of these
C. I,II,IV
D. I, III, V and VI

Question 10/20

Why can't we design a perfect neural network?

A. full operation is still not known of biological neurons
B. number of neuron is itself not precisely known
C. number of interconnection is very large & is very complex
D. all of the mentioned

Question 11/20

Suppose you need to design a neural network based model. Now, there is a pre-trained neural network that was trained on a similar problem. What will you do to make use of this pre-trained network in order to solve your problem?

A. Re-train the model for the new dataset
B. Fine tune the last couple of layers only
C. Freeze all the layers except the last, re-train the last layer
D. Assess on every layer how the model performs and only select a few of them

Question 12/20

If number of nodes in output layer are more than 2 then which activation function can be used.

A. lstm
B. ReLu
C. Softmax
D. Softmax & ReLu

Question 13/20

Which of the following statements is true when you use 1×1 convolutions in a CNN?

A. It can help in dimensionality reduction
B. It can be used for feature pooling
C. It suffers less overfitting due to small kernel size
D. All of the above

Question 14/20

Which of the following neural networks has a memory?

A. NONE
B. LSTM
C. 1D CNN
D. 2D CNN

Question 15/20

For an image recognition problem (recognizing a cat in a photo), which architecture of neural network would be better suited to solve the problem?

A. RNN
B. CNN
C. all of the mentioned
D. GAN

Question 16/20

Match the following
I. Sigmoid (a) range [0,infinity]
II. Tanh (b) range [-1,1]
III. RelU (c) range [0,1]
IV. Softmax (d) probabilities sum 1

A. I-(c), II-(b), III-(a), IV- (d)
B. I-(a), II-(b), III-(c), IV- (d)
C. I-(d), II-(b), III-(a), IV- (c)
D. I-(c), II-(d), III-(a), IV- (c)

sigmoid-- range[0,1]

Tanh -- range [-1,1]

Relu -- [range[0,infinity]

Softmax -- probabilities sum 1

Question 17/20

In perceptron learning, what happens when input vector is correctly classified?

A. weight adjustments doesn't depend on classification of input vector
B. small adjustments in weight is done
C. large adjustments in weight is done
D. no adjustments in weight is done

Question 18/20

Which of the following statements are true for Tensorflow 2.x version?

A. Tf2.x doesnot have support tensorboard
B. Tf 2.x doesnot support the concept of placeholders
C. Tf2.x needs session for carrying out the executions
D. Tf2.x works on lazy execution

Question 19/20

What is plasticity in neural networks?

A. output is static
B. output pattern keeps on changing
C. input pattern has become static
D. input pattern keeps on changing

Question 20/20

Activation models are?

A. static
B. none of the mentioned
C. dynamic
D. deterministic