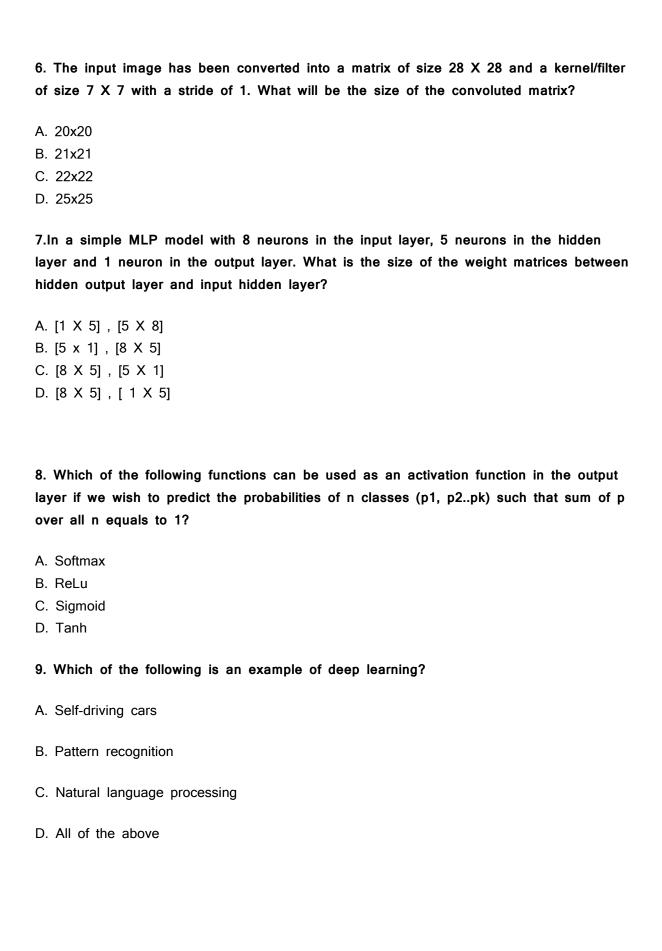
## **Deep Neural Network**

## **MULTIPLE TYPE QUESTIONS**

1.	Which	of the	following is	a subset of	machine I	earning?	

- A. Numpy
- B. SciPy
- C. Deep Learning
- D. All of the above
- 2, RNNs stands for?
- A. Receives neural networks
- B. Report neural networks
- C. Recording neural networks
- D. Recurrent neural networks
- 3. CNN is mostly used when there is an?
- A. structured data
- B. unstructured data
- C. Both A and B
- D. None of the above
- 4. In which of the following applications can we use deep learning to solve the problem?
- A. Protein structure prediction
- B. Prediction of chemical reactions
- C. Detection of exotic particles
- D. All of the above
- 5. The number of nodes in the input layer is 10 and the hidden layer is 5. The maximum number of connections from the input layer to the hidden layer are
- A. 50
- B. less than 50
- C. more than 50
- D. It is an arbitrary value



10. Which is the following is true about neurons?
A. A neuron has a single input and only single output
B. A neuron has multiple inputs and multiple outputs
C. A neuron has a single input and multiple outputs
D. All of the above
11. Which of the following steps can be taken to prevent overfitting in a neural network?
A. Dropout of neurons
B. Early stopping
C. Batch normalization
D. All of the above
12. Which of the following is a deep learning library?
A. Tensorflow
B. Keras
C. PyTorch
D. All of the above
13. What is the purpose of a loss function?
A. Calculate the error value of the forward network
B. Optimize the error values according to the error rate
C. Both A and B
D. None

14. Suppose you have a dataset from where you have to predict three classes. Then which of the following configuration you should use in the output layer?
A. Activation function = softmax, loss function = cross entropy
B. Activation function = sigmoid, loss function = cross entropy
C. Activation function = softmax, loss function = mean squared error
D. Activation function = sigmoid, loss function = mean squared error
15. What is gradient descent?
A. Activation function
B. Loss function
C. Optimization algorithm
D. None
16. Which of the following activation function can not be used in the output layer of an image classification model?
A. ReLu
B. Softmax
C. Sigmoid
D. None
17. Which of the following is a correct order for the Convolutional Neural Network operation?
A. Convolution -> max pooling -> flattening -> full connection
B. Max pooling -> convolution -> flattening -> full connection
C. Flattening -> max pooling -> convolution -> full connection
D. None
18. Batch normalization helps to prevent-
A. activation functions to become too high or low
B. the training speed to become too slow
C. Both A and B
D. None

18. Which of the following is a correct order for the Convolutional Neural Network operation?
A. Convolution -> max pooling -> flattening -> full connection

- B. Max pooling -> convolution -> flattening -> full connection
- C. Flattening -> max pooling -> convolution -> full connection
- D. None

## 19. In a neural network, which of the following causes the loss not to decrease faster?

- A. Stuck at a local minima
- B. High regularization parameter
- C. Slow learning rate
- D. All of the above

## 20. Which of the following is true about dropout?

- A. Applied in the hidden layer nodes
- B. Applied in the output layer nodes
- C. Both A and B
- D. None