**Module 2**

**TensorFlow MCQ’s**

**1) What is TensorFlow?**

A) A programming language

B) A machine learning library

C) A database management system

D) An operating system

Answer: B

**2) What is Tensorboard?**

A) A machine learning framework

B) A library for building neural networks

C) A visualization tool for TensorFlow

D) A database management system

Answer: C

**3) What is the purpose of TensorFlow Serving?**

A) To train machine learning models

B) To deploy machine learning models in production

C) To visualize machine learning models

D) To optimize machine learning models

Answer: B

**4)** **What is a Tensor in TensorFlow?**

A) A type of neural network

B) A type of activation function

C) A multi-dimensional array

D) A type of loss function

Answer: C

**5) How do you run a TensorFlow operation in a session?**

A) By calling the tf.Session() function

B) By using the tf.Variable() function

C) By calling the tf.run() method on the operation

D) By calling the tf.Session().run() method on the operation

Answer: D

**6) Which of the following statements about tf.SparseTensor is true?**

A) It is used for dense matrix operations in TensorFlow.

B) It is used to store multi-dimensional arrays with many zero values.

C) It is used to perform data augmentation in TensorFlow.

D) It is used to create custom loss functions in TensorFlow.

Answer: B

**7) Which of the following statements is true about tf.placeholder?**

A) tf.placeholder is a deprecated method in TensorFlow 2.0.

B) tf.placeholder is only used for defining outputs in a TensorFlow graph.

C) tf.placeholder can be used to define both inputs and outputs in a TensorFlow graph.

D) tf.placeholder is only used for defining variables in a TensorFlow graph.

Answer: C

**8) Which of the following is NOT a valid data type in TensorFlow?**

A) float32

B) float16

C) float64

D) float128

Answer: D

**9) Which of the following statements is true about TensorFlow?**

A) TensorFlow is a deep learning framework developed by Google.

B) TensorFlow is a machine learning framework developed by Facebook.

C) TensorFlow is a natural language processing framework developed by Microsoft.

D) TensorFlow is a reinforcement learning framework developed by OpenAI.

Answer: A

**10) Which of the following components of a TensorFlow tensor is an optional label that can be used to identify the tensor?**

A) Distinctive label

B) Measurement

C) Type of data

D) None of the above

Answer: A

**11) What is Google Colab?**

A) A spreadsheet application

B) A presentation software

C) A web-based platform for creating and sharing Jupyter notebooks

D) A database management system

Answer: C

**12) What is the purpose of importing TensorFlow as tf in a Python script?**

A) To create a new TensorFlow session

B) To install TensorFlow on the system

C) To access the functionality of TensorFlow

D) To load a saved TensorFlow model

Answer: C