

Name : _____

TENSORFLOW ASSIGNMENT ACTIVITY

Q1

Operations and computational graphs of Tensorflow can run without session

- A. True
- B. False

Q2

In TensorFlow, a graph contains nodes and edges. The former represents data operations and the later represent data and its dependency relationship.

- A. True
- B. False

Q3

(Single-Answer Question) Which of the following methods CANNOT get data into Tensorflow program?

- A. Editing a file format reader
- B. Preloaded data
- C. Feeding
- D. Reading from files

Q4

(Multiple-Answer Question) What are the implementation modes of TensorFlow?

- A. Forward mode
- B. Reverse mode
- C. Distributed mode
- D. Single-Node mode

Q5

(Single-Answer Question) Which of the following is NOT a tensor attribute?

- A. Name (Logo)
- B. Shape (Dimensionality)
- C. Type (Type)
- D. Node (Node)

Q6

(Single-Answer Question) Which of the following options is NOT the session mode used by TensorFlow?

- A. Explicitly call the session to generate function
- B. Explicitly call the session to close function
- C. Through the Python context manager
- D. Multiple POST queries

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Q7

(Single-Answer Question) Which of the following statement about the fetch operation in TensorFlow is TRUE?

- A. Only a single tensor node can be fetched once.
- B. Generally, the fetch operation is used together with `tf.placeholder()`.
- C. Only when the graph execution is triggered, you can fetch the tensor values you want.
- D. You can fetch the tensor values you want once the graph is created.

Q8

(Single - Answer Question) Which of the following files is the graph structure of Tensorflow saved in?

- A. checkpoint file
- B. index file
- C. cpkt file
- D. metafile

Q9

Data in TensorFlow is represented by tensors.

- A. True
- B. False

Q10

(Single-Answer Question) Which of the following is NOT a module in the Tensorflow library?

- A. `tf.boost`
- B. `tf.nn`
- C. `tf.layers`
- D. `tf.contrib`

Q11

Tensorflow is Google's first generation of proprietary machine learning system.

- A. True
- B. False

Q12

Which of the following options is NOT a tensor attribute?

- A. node
- B. type
- C. shape
- D. name (identification)

Q13

In Tensorflow, data is expressed in the form of tensors and computational graphs

- A. True
- B. False

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Q14

The neural network training process will generate a lot of data. What mechanism does Tensorflow use to avoid the problem of too much input data?

- A. placeholder
- B. fetch
- C. feed
- D. client

Q15.

Which of the following environments does NOT support the installation of Tensorflow?

- A. Openstack
- B. Linux
- C. MacOS
- D. Docker

Q16

There are a lot of data generated during the training of the neural network. What mechanism does TensorFlow use to avoid excessive input data?

- A. Client
- B. feed
- C. placeholder
- D. fetch

Q17.

Which of the following data types does Tensorflow NOT support?

- A. int8
- B. float32
- C. double64
- D. bool

Q18.

Which of the following is the computational model of tensorflow?

- A. Session
- B. Tensor
- C. Computational graph
- D. Variable

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Q19

(Multiple-Answer Question) What are the characteristics of TensorFlow? ()

- A. Open source
- B. Convenient
- C. Well-developed
- D. Flexible

Q20

(True or False) Operations and computation graph of TensorFlow do NOT necessarily run in the Session. ()

- A. TRUE
- B. FALSE

Q21

In Tensorflow, data is represented in the form of tensors and calculation charts

- A. True
- B. False

Q22

(Multiple-Answer Question) Which of the following options belong to Tensorflow concepts?

- A. Tensor
- B. Variables
- C. Placeholder
- D. Operation
- E. Conversation

Q23

(Multiple-Answer Question) What are the core concepts in Tensorflow?

- A. Gridding
- B. Calculation Chart
- C. Dot Product
- D. Tensor

Q24

(Single-Answer Question) Which of the following options is NOT the Tensorflow build process?

- A. Building a calculation chart
- B. Input tensor
- C. Generate a session
- D. Update weights

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Q25

(Multiple-Answer Question) What are the mainstream deep learning open source tools?

- A. TensorFlow
- B. Caffe
- C. Torch
- D. Theano
- E. Scikit-learn

Q26

(Multiple-Answer Question) Which of the following are the characteristics of TensorFlow?

- A. Open source
- B. Convenience
- C. C Mature
- D. Flexible

Q27

TensorFlow supports multi-TPU cluster computing

- A. True
- B. False

Q28

Tensorflow framework does NOT support Windows systems

- A. True
- B. False

Q29

(Single-Answer Question) Which of the following is NOT part of the deep learning development framework?

- A. CNTK
- B. Keras
- C. BAFA
- D. MXNet

Q30

(Multiple-Answer Question) Which of the following are included in the application scenarios of Tensorflow?

- A. Speech recognition
- B. Face recognition
- C. Image style changes
- D. Autopilot

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Q31

(Single-Answer Question) Which of the following is NOT a way for the TensorFlow program to read data?

- A. Preload data
- B. Feeding data
- C. Read from file
- D. Write a file format reader

Q32

(Single-Answer Question) Which of the following is the computing model of TensorFlow?

- A. Calculation chart
- B. Tensor
- C. Conversation
- D. Variable

Q33

TensorFlow ONLY supports Python and R language

- A. True
- B. False

Q34

(Multiple-Answer Question) What are algorithms supported by TensorFlow?

- A. CNN – Convolutional Neural Network
- B. ZNN
- C. RNN – Recurrent Neural Network
- D. HUT

Q35

(Single-Answer Question) Which method is NOT supported in TensorFlow to define variables?

- A. null
- B. Random number
- C. Constant
- D. Calculated from initial values of other variables

Q36

(Single-Answer Question) Tensorflow is the second generation of artificial intelligence learning system developed by:

- A. Distbelief
- B. Paleyfunction
- C. ConvexOne
- D. Infinity