NPTEL Online Certification Courses

Indian Institute of Technology Kharagpur

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Introduction to

Internet of Things

Assignment-Week 7

TYPE OF QUESTION: MCQ/MSQ

Number of questions: **15** **Total marks: 15 X 1= 15**

QUESTION 1:

Adafruit provides a library to work with DHT22 Sensor.

a. True
b. False

Correct Answer: a. True
Detailed Solution: Adafruit provides a library to work with DHT22 Sensor. (Please refer to lecture Implementation of IoT with Raspberry Pi- II @ 4:41)

QUESTION 2:

Which python library is used for plotting the data in 2D.

a. List
b. Numpy
c. Pandas
d. Matplotlib

Correct Answer: d. Matplotlib

Detailed Solution: Matplotlib is a python library used for plotting the data in 2D. (Please refer to lecture Implementation of IoT with Raspberry Pi- III @ 12:13)

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QUESTION 3:

Fill in the blanks. _____ creates a two-way communication between two nodes in a network.

a. Peer-to-Peer Network
b. Parallel Programming
c. Socket Programming
d. None of these

Correct Answer: c. Socket Programming

Detailed Solution: Socket Programming creates a two-way communication between two nodes in a network. (Please refer to lecture Implementation of IoT with Raspberry Pi- II @ 6:02).

QUESTION 4:

What are the two main challenges of SDN?

a. File placement and Node placement
b. Rule placement and Controller placement
c. Both a and b
d. Neither a nor b

Correct Answer: b. Rule placement and Controller placement

Detailed Solution: Rule placement and Controller placement are the two main challenges of SDN. (Please refer to lecture Software Defined Networking- Part- I @ 16:49)

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QUESTION 5:

IoT cannot control the network remotely.

a. True
b. False

Correct Answer: b. False

Detailed Solution: IoT can control the network remotely. (Please refer to lecture Implementation of IoT with Raspberry Pi- II @ 1:53)

QUESTION 6:

Which of the following is a part of data processing?

a. Splitting
b. Filtering
c. Neither a nor b
d. Both a and b

Correct Answer: d. Both a and b

Detailed Solution: Splitting and Filtering are both types of data processing. (Please refer to lecture Implementation of IoT with Raspberry Pi- III @ 7:20)

QUESTION 7:

What is introduced if a controller is down in SDN?

a. Backup controller
b. Intro controller
c. Both a and b
d. Neither a nor b

Correct Answer: a. Backup Controller

Detailed Solution: Backup controller is introduced if a controller is down in SDN. (Please refer to lecture Software Defined Networking- Part- II @ 8:29)

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QUESTION 8:

Ion() is used to add a subplot in the data plotting in python.

a. True
b. False

Correct Answer: b. False
Detailed Solution: subplot() is used to add a subplot in the data plotting in python. (Please refer to lecture Implementation of IoT with Raspberry Pi- III @ 23:28).

QUESTION 9:

Matplotlib cannot plot in 2D.

a. True
b. False

Correct Answer: b. False
Detailed Solution: Matplotlib can plot in 2D. (Please refer to lecture Implementation of IoT with Raspberry Pi- III @ 11:54).

QUESTION 10:

How many rules are deleted from the switch at hard timeout?

a. None
b. All
c. Half
d. Some

Correct Answer: b. All

Detailed Solution: All rules are deleted from the switch at hard timeout. See lecture 33 @ 25:02

QUESTION 11:

Are controllers able to handle all incoming requests from switches?

a. Yes
b. No

Correct Answer: a. Yes

Detailed Solution: Controllers must be able to handle all incoming requests from switches. See lecture 34 @ 4:05

QUESTION 12:

Are Indigo and LINC Open source?

a. Yes
b. No

Correct Answer: a. Yes

Detailed Solution: Indigo and LINC are both open source. See lecture 33@ 26:43.

QUESTION 13:

Which of the following forward the sensed data based on the ID of the source node?

a. ID-centric data forwarding
b. Northbound IDs
c. Both a and b
d. Neither a nor b

Correct Answer: a. ID-centric data forwarding

Detailed Solution: ID-centric data forwarding forward the sensed data based on the ID of the source node. See lecture 35 @ 09:49

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QUESTION 14:

How many requests can a controller handle through a single thread?

a. 200/sec
b. 50/sec
c. Neither a nor b
d. Both a and b

Correct Answer: a. 200/sec

Detailed Solution: A controller can handle 200 requests in a second through a single thread. (Please refer to lecture 34@ 3:47)

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QUESTION 15:

Switches that forward the traffic in a distributed manner have a global view of the network.

a. True
b. False

Correct Answer: b. False

Detailed Solution: Switches that forward the traffic in a distributed manner do not have a global view of the network. (Please refer to lecture 33 @ 7:04)

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