Unit 5 - Week 3

Register for Certification exam

Course outline

How to access the portal

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Assignment 3

The due date for submitting this assignment has passed. Due on 2019-02-20, 23:59 IST.

Assignment submitted on 2019-02-19, 12:37 IST

1) In Near Field Communication (NFC), the active devices are able to *1 point*

a. only collect information
b. only transmit information
c. collect and transmit information
d. only receive information

- (○) a
- ( ) b
- (●) c
- ( ) d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

2) The Physical layer of HART protocol is derived from *1 point*

a. IEEE 802.15.2
b. IEEE 802.15.4
c. IEEE 802.15.6
d. IEEE 802.16

- ( ) a
- (●) b
- ( ) c
- ( ) d

Yes, the answer is correct.
Score: 1

Accepted Answers:
b

3) Near Field Communication (NFC) is based on the principle of *1 point*

a. Reflection
b. Refraction
c. Magnetic induction
d. Electrical conductance

- ( ) a
- ( ) b
- (●) c
- ( ) d

Yes, the answer is correct.
Score: 1

Accepted Answers:

c

4) Inquiry run by one Bluetooth device to *1 point*

a. Form a connection with another device
b. discover other devices near it
c. participate in the network
d. isolate from the network

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
b

5) *1 point*

The sniff mode in Bluetooth is used to

a. Actively transmitting or receiving data
b. Sleep and only listens for transmissions at a set interval
c. Switch in power-saving mode where a device sleeps for a defined period and then returns back to active mode
d. Deactivate the slave

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
b

6) *1 point*

Which of the following layers provides connection-oriented and connectionless data services to upper layer protocols in blue tooth?

a. L2CAP
b. Baseband
c. Physical radio
d. Application

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
a

7) Which of the following modulations is utilized by Zwave? *1 point*

a. Amplitude Phase Shift Keying (APSK)
b. Quadrature Phase Shift Keying (QPSK)
c. Frequency Shift Keying (FSK)
d. Gaussian Frequency Shift Keying (GFSK)

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
d

8) The PHY and MAC layers in ISA 100.11A are based upon; *1 point*

a. IEEE 802.11a
b. IEEE 802.15.4
c. IEEE 802.15.6
d. IEEE 802.11g

- a
- (•) b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
b

9) Event aware topology management in WSNs include: *1 point*

a. Timely detection of an event of interest
b. Monitoring the event
c. Adapting with the changes of event state
d. All of these

- a
- b
- c
- (•) d

Yes, the answer is correct.
Score: 1

Accepted Answers:
d

10) WBAN stands for: *1 point*

a. Wireless Buffer Area Networks
b. Wireless Body Area Networks
c. Wired Body Area Networks
d. Wired Buffer Area Networks

- a
- (•) b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
b

11) *1 point*

In a wireless sensor network, a node which are unable to perform an operation, because of power failure and environmental effects is known as

a. normal node
b. selfish node
c. failed node
d. badly failed node

- a
- b
- (•) c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

12) A dumb node *1 point*

a. can sense its surrounding and is able to transmit the sensed data
b. cannot sense its surrounding, but it can transmit the data
c. can sense its surrounding, but unable to transmit the sensed data
d. cannot sensor its surrounding and is unable to transmit the sensed data

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
c

13) *1 point*

Which of the following is a scheme for re-establishing the connectivity in the presence of dumb nodes in a wireless sensor noetworks?

a. INTSEM
b. CoRD
c. SMAC
d. DutyCon

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
b

14) The HART protocol was designed for: *1 point*

a. Home automation networking
b. Networked Smart Field devices
c. Vehicular networking
d. All of these

- a
- b
- c
- d

Yes, the answer is correct.
Score: 1

Accepted Answers:
b

15) INTSEM controls the transmission rate of a node by adjusting *1 point*

a. a node's data transmission rate
b. a node's sleep time
c. a node's receiving rate
d. the bandwidth of the channel

- a
- b
- c
- d

No, the answer is incorrect.
Score: 0

Accepted Answers:
b

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