Introduction to

Internet of Things

Assignment-Week

10

TYPE OF QUESTION:MCQ/MSQ

Number ofquestions:**15**   **Total marks: 15 X 1= 15**

QUESTION 1:

Data fusion enables optimum utilization of massive data gathered from multiple sources.

a. True
b. False

Correct Answer: a. True

Detailed Solution: Data fusion enables optimum utilization of massive data gathered from multiple sources. (Please refer Lecture 47@5:40)

QUESTION 2:

Which of the following is a stage in data fusion?

a. Decision level

b. Feature level
c. Pixel level
d. All of the above

Correct Answer: d. All of the above

Detailed Solution : Decision level, feature level, pixel level and signal level are the four stages of data fusion. (Please refer Lecture 47@11:00)

QUESTION 3:

Which of the following is one of the challenges of Data fusion?

    a. Imperfection
    b. Conflicts
    c. Ambiguity
    d. All of the above

Correct Answer: d. All of the above

Detailed Solution : The challenges of data fusion involves Imperfection, Conflicts and Ambiguity. (Please refer Lecture 47@9:16)

QUESTION 4:

Which of the following is one of the theory of evidence-based mathematical methods of data fusion?

    a. Belief function
    b. Bayesian analysis
    c. ANN
    d. None of these

Correct Answer: a. Belief function

Detailed Solution: Belief function is one of the theory of evidence-based mathematical methods of data fusion**.** (Please refer Lecture 47 @11:49)

QUESTION 5:

DLNA stands for Digital Living Network Alliance.

    a. True
    b. False

Correct Answer: a. True

Detailed Solution: DLNA stands for Digital Living Network Alliance. (Please refer Lecture 48@13:45)

QUESTION 6:

Which of the following are the functional layers in smart parking?

    a. Information collection
    b. System Deployment
    c. Service Dissemination
    d. All of these

Correct Answer: d. All of these

Detailed Solution: Information collection, System Deployment and Service Dissemination are the three functional layers in smart parking (Please refer Lecture 47@17:25)

QUESTION 7:

Which of the following statements are true about the HAN standards?

Statement I: Physical and MAC layers are defined by IEEE802.15.4.

Statement II: Network layer is defined by Zigbee.

Statement III: Application layer is defined by IEEE802.15.4

    a. Statements I and II
    b. Statements I and III
    c. Statements II and III
    d. Statements I, II and III

Correct Answer: a. Statements I and II

Detailed Solution: Physical and MAC layers are defined by IEEE802.15.4. Network layer and Application layers are defined by Zigbee. (Please refer Lecture 48@16:11)

QUESTION 8:

Which of the following are true about X-10?

Statement I: It allows remote control of compliant transmitters.

Statement II: It has low speed and data rate.

Statement III: It is adopted by GE.

    a. Statement I and II
    b. Statement II and III
    c. Statement I and III
    d. Statement I, II and III

Correct Answer: d. Statement I, II and III

Detailed Solution: X-10 allows remote control of compliant transmitters, has low speed and data rate and is adopted by GE.

(Please refer Lecture 48@17:04)

QUESTION 9:

Fill in the blank.

_____ enables vehicles to wirelessly share a diverse range of information.

    a. Local area network
    b. V2X Paradigm

    c. V2A Paradigm
    d. Metropolitan area network

Correct Answer: b. V2X Paradigm

Detailed Solution: V2X enables vehicles to wirelessly share a diverse range of information
(Please refer Lecture 49@10:48)

QUESTION 10:

Which of the following is a property of Vehicular Ad-hoc Networks?

    a. Is based on DSRC

    b. Is based on WAVE

    c. Guaranteed low latency

    d. All of these

Correct Answer: d. All of these

Detailed Solution: VANETs are based on DSRC and WAVE. They also have guaranteed low-latency in mobile environments. (Please refer Lecture 49@16:50)

QUESTION 11:

Knob is a switch type of INN.

    a. True

    b. False

Correct Answer: a. True

Detailed Solution: Knob is a switch type of INN. (Please refer Lecture 49@23:56)

QUESTION 12:

Which of the following is responsible for central coordination in Body-brain architecture?

    a. Body
    b. INN
    c. Spinal cord
    d. None of these

Correct Answer: d. None of these

Detailed Solution: The brain is responsible for central coordination in Body-brain architecture (Please refer Lecture 49@23:03)

QUESTION 13:

Which of the following stands for DSRC?

a. Directed Short Range Communication
b. Dedicated Short Range Communication

c. Directed Small Range Communication
d. Dedicated Small Range Communication

Correct Answer: b. Dedicated Short Range Communication

Detailed Solution: DSRC stands for Dedicated Short Range Communication (Please refer Lecture 50@7:27)

QUESTION 14:

Ad-hoc is a domain of VANET.

a. True
b. False

Correct Answer: a. True

Detailed Solution: Ad-hoc is a domain of VANET. (Please refer Lecture 50@14:12)

QUESTION 15:

What are the disadvantages of V2X communication?

a. Increased traffic safety
b. Tracking of movement
c. Efficient use of fuel
d. None of these

Correct Answer: b. Tracking of movement

Detailed Solution: Disadvantages of V2X communication includes tracking of movement, violation of privacy, loss of data control, etc. (Please refer Lecture 50@21:04)

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