



NPTEL Online Certification Courses  
Indian Institute of Technology Kharagpur



Introduction to Internet of  
Things Assignment-Week

10

TYPE OF QUESTION: MCQ/MSQ

Number of questions: 15

Total marks: 15 X 1 = 15

QUESTION 1:

DLNA (used in HAN standards) expands to:

- a) Digital Lifestyle Network Alliance
- b) Digital Living Network Alliance
- c) Digital Lifestyle Network Algorithm
- d) None of these

Correct Answer: b

Detailed Solution: DLNA = Digital Living Network Alliance. (Lecture 48 @ 13:49)

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QUESTION 2:

Which property best characterizes V2X?

- a) Restricted to a single source
- b) Distributed architecture
- c) Both a and b
- d) Neither a nor b

Correct Answer: b

Detailed Solution: V2X follows a distributed architecture. (Lecture 49 @ 12:06)

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QUESTION 3:

Which set correctly captures smart-home functionality?

- a) Health monitoring only
- b) Security only
- c) Both health monitoring and security
- d) Neither

Correct Answer: c

Detailed Solution: Smart homes include both health monitoring and security. (Lecture 46 @ 23:52)

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QUESTION 4:

Which are valid types of sensing?

- a) Stationary
- b) Mobile
- c) Both a and b
- d) None of these

Correct Answer: c

Detailed Solution: Sensing can be stationary or mobile. (Lecture 47 @ 19:36)

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QUESTION 5:

Which layers are part of the Zigbee stack?

- a) Physical and transport
- b) MAC and transport
- c) Network and MAC
- d) Transport and MAC

Correct Answer: c

Detailed Solution: Zigbee includes Physical, MAC, and Network layers. (Lecture 48 @ 16:23)

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QUESTION 6:

Smart parking primarily reduces traffic \_\_\_\_\_.

- a) mobility
- b) area
- c) analysis
- d) congestion

Correct Answer: d

Detailed Solution: Smart parking reduces traffic congestion. (Lecture 47 @ 16:58)

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QUESTION 7:

About Home Area Network (HAN), consider: I) Multi-protocol gateway bridges non-IP to IP. II) Wired HAN is low cost. III) Wireless HAN makes implementation easy. *Which of these is correct?*

- a) Only I
- b) I and II only
- c) I and III only
- d) I, II, and III

Correct Answer: d

Detailed Solution: All three are correct per lecture context. (Lecture 48 @ 11:24)

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QUESTION 8:

Which statements about smart health are true? I) Low-cost and portable II) Allows remote check-ups and diagnosis III) Effortless health monitoring

- a) I only
- b) II only
- c) I, II, and III
- d) None of these

Correct Answer: c

Detailed Solution: All listed properties were highlighted in lecture. (Lecture 46 @ 26:12)\_\_\_\_

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QUESTION 9:

Phases of Intelligent Connected Vehicle (ICV) development include:

- a) Based on 2G
- b) Based on 4G LTE
- c) Both a and b
- d) None of these

Correct Answer: c. Both a and b

Detailed Solution: Three phases as listed. (Lecture 50 @ 12:28)

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QUESTION 10:

In the Ad-hoc domain of VANET, vehicles are:

- a) Stationary
- b) Mobile
- c) Fixed to RSUs only
- d) None of these

Correct Answer: b

Detailed Solution: Vehicles are mobile in the ad-hoc domain. (Lecture 50 @ 16:59)

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QUESTION 11:

Domains of VANET include:

- a) In-vehicle and ad-hoc
- b) Ad-hoc and data center
- c) Data center
- d) None of these

Correct Answer: a

Detailed Solution: In-vehicle and Ad-hoc are VANET domains (per the lecture scope). (Lecture 50 @ 14:36)

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QUESTION 12:

At which data fusion stage are multiple classifier outputs combined?

- a) Pixel level
- b) Feature level
- c) Signal level
- d) Decision level

Correct Answer: d

Detailed Solution: Ensemble of decisions happens at the decision level. (Lecture 47 @ 11:23)

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QUESTION 13:

The Body & Brain Architecture consists of how many layers?

- a) 1
- b) 2
- c) 3
- d) 4

Correct Answer: c

Detailed Solution: It consists of three layers. (Lecture 49 @ 23:09)

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QUESTION 14:

Which statement about smart home infrastructure is correct?

- a) It cannot include wireless devices.
- b) It may include wired and/or wireless devices.
- c) It must be wireless-only.
- d) None of these

Correct Answer: b

Detailed Solution: Smart homes can use wired and/or wireless devices. (Lecture 48 @ 6:17)

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QUESTION 15:

Intelligent Connected Vehicles (ICV) communication is based on:

- a) Dedicated Short Range Communication
- b) Directed Short Range Communication
- c) Dedicated Small Range Communication
- d) All of these

Correct Answer: a

Detailed Solution: ICV is based on DSRC. (Lecture 50 @ 7:22)

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