

1. What are the three types of IIoT Analytics?

- a. Systematic Analytics, Predictive Analytics, Prescriptive Analytics
- b. Descriptive Analytics, Systematic Analytics, Prescriptive Analytics
- c. Descriptive Analytics, Predictive Analytics, Systematic Analytics
- d. Descriptive Analytics, Predictive Analytics, Prescriptive Analytics

Answer: (d)

Justification: Please refer to Slide 5 of Lecture 1 of Week 8

2. What are the main 5 Vs of big data?

- a. Volume, virtualization, viscosity, veracity, variety
- b. Volume, virtualization, variability, viscosity, variety
- c. Volume, velocity, virtualization, veracity, viscosity
- d. Volume, velocity, variability, veracity, variety

Answer: (d)

Justification: Please refer to Slide 7 of Lecture 1 of Week 8

3. “Machine learning is a subset of deep learning.” --- True/False?

- a. True
- b. False

Answer: (b)

Justification: Please refer to Figure 13.1, page 256 of the book, “Introduction to Industrial Internet of Things and Industry 4.0”.

4. Which of the following is an example of Classification?

- a. Bayes Regression
- b. Support Vector Machine
- c. Gaussian Mixture Model
- d. All of the above

Answer: (b)

Justification: Please refer to Slide 14 of Lecture 1 of Week 8

5. Clustering is used in _____ learning?

- a. Unsupervised
- b. Supervised
- c. Reinforcement
- d. None of the above

Answer: (a)

Justification: Please refer to Slide 8 of Lecture 2 of Week 8

6. Which machine learning algorithm enables machines to improve performance by automatically learning the ideal behaviors for a specific environment??

- a. Unsupervised Learning
- b. Supervised Learning
- c. Reinforcement Learning
- d. Deep Learning

Answer: (c)

Justification: Please refer to Slide 13 of Lecture 2 of Week 8

7. Which node in the Decision Tree evaluates or determines the outcome based on an attribute's value?

- a. Parent node
- b. Leaf node
- c. Decision node
- d. Root node

Answer: (c)

Justification: Please refer to Slide 12 of Lecture 2 of Week 8

8. What is the subfield of machine learning that mimics the working function of billions of neurons in our brain??

- a. Regression
- b. Deep Learning
- c. Decision tree
- d. Reinforcement learning

Answer: (b)

Justification: Please refer to Slide 6 of Lecture 3 of Week 8

9. Why do we need cloud?

- a. For high computational speed for data monitoring and analytics
- b. For storage of huge amount of data
- c. For effective data acquisition
- d. All of the above

Answer: (d)

Justification: Please refer to Slide 5 of Lecture 4 of Week 8

10. What are the three types of services offered by cloud computing?

- a. SeaaS, PaaS and IaaS
- b. SeaaS, CaaS and IaaS
- c. SaaS, PaaS and IaaS
- d. NaaS, CaaS and IaaS

Answer: (c)

Justification: Please refer to Slides 8 of Lecture 4 of Week 8

11. Which of the following is an example of Infrastructure-as-a-Service?

- a. Google App Engine
- b. Microsoft Azure
- c. Microsoft 365
- d. All of the above

Answer: (b)

Justification: Please refer to Slide 10 of Lecture 4 of Week 8

12. Amazon Web Service is a _____ cloud.

- a. public
- b. private
- c. hybrid
- d. community

Answer: (a)

Justification: Please refer to Slide 11 of Lecture 3 of Week 8

13. Which one of the following is not a characteristic of a good SLA?

- a. Mutually Acceptable
- b. Quantifiable
- c. Refundable
- d. Controllable

Answer: (c)

Justification: Please refer to Slides 13 of Lecture 5 of Week 8

14. Fog layer is located between which two layers?

- a. the edge and the gateways
- b. the devices and the edge
- c. the devices and the gateways
- d. the edge and the cloud

Answer: (d)

Justification: Please refer to Slide 22 of Lecture 5 of Week 8

15. What are the three main layers of Deep learning?

- a. Input layer, prediction layer, output layer
- b. Input layer, hidden layer, decision layer
- c. Input layer, prediction layer, decision layer
- d. Input layer, hidden layer, output layer

Answer: (d)

Justification: Please refer to Slide 8 of Lecture 3 of Week 8
