

WEEK 11 2020A

Assignment 11

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-04-15, 23:59 IST.

1)

Building management involves:

- a. Operations
- b. Maintenance
- c. Scheduling and planning
- d. All the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

1 point

2)

What new technology can be used within facilities?

- a. Wi-Fi
- b. Li-Fi
- c. Bluetooth
- d. None of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

1 point

3)

Apart from operations conducted in a building, facility management also:

- a. Support services for organizations
- b. Integrates people, place and process
- c. Improve quality of working environment
- d. All the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

1 point

4)

Facility management increases operating efficiency and reduce maintenance cost.

- a. True
- b. False

- ☐ a.
- ☐ b.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

1 point

5)

1 point

Which of the following helps to stand out from competitors in facility management?

- a. Cost Management
- b. Security Management
- c. Changing regulatory and compliance standards
- d. Ageing inventory

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

6)

1 point

How does IIoT help in supply chain?

- a. Distribution of products
- b. Stock In and Out
- c. Supply of products
- d. Sale of products

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

7)

1 point

Lead time is the duration between _____

- a. Initiation and completion of a production process
- b. Manufacture and completion of a production process
- c. Initiation and manufacture of a production process
- d. Has nothing to do with production process

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

8)

1 point

What is expected from effective inventory management?

- a. Anticipate demand
- b. Classification of inventories
- c. Inventory monitoring
- d. All of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

9)

Objectives of quality control include:

- a. Inventory monitoring
- b. Periodic inspection
- c. Proper order cycles
- d. Storage of goods

1 point

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

10)

Passive RFID tags continuously transmit data

1 point

- a. True
- b. False

- ☐ a.
- ☐ b.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

11)

Which of the following is an encrypted connection from a mobile device to a network?

1 point

- a. Endpoint security
- b. Virtual Private Network
- c. Secure web gateway
- d. Cloud access security broker

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

12)

Which of the following generates an artificial interactive environment?

1 point

- a. Virtual Reality
- b. Augmented Reality
- c. Both virtual and augmented reality
- d. None of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

13)

Which of the following isolates the user to a different world?

1 point

- a. Virtual Reality
- b. Augmented Reality
- c. Both virtual and augmented reality
- d. None of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

14)

Device security includes:

1 point

- a. Smart phones
- b. Tablets
- c. Laptops
- d. All the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

15)

Barrier between trusted internal network and the external networks is:

1 point

- a. Application security
- b. Behavioral analytics
- c. Intrusion prevention systems
- d. Firewalls

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

WEEK 11 2021A

WEEK 11 2021B

Week 11 : Assignment 11

Assignment not submitted

Due date: 2021-10-13, 23:59 IST.

1) Which of the following represents the IIoT Healthcare architecture in bottom-up order?

- a. Sensing, Sending, Processing, Storing, Learning
- b. Sensing, Processing, Sending, Storing, Learning
- c. Sensing, Sending, Storing, Processing, Learning
- d. Sensing, Storing, Sending, Processing, Learning

☒ a.

☐ b.

☐ c.

☐ d.

2) Which of the following is not an IIoT Healthcare Security requirement?

- a. Confidentiality
- b. Integrity
- c. Ease of use
- d. Availability

☐ a.

☐ b.

☒ c.

☐ d.

3) QardioCore is an example of

- a. IoT-based blood pressure monitoring system
- b. Wireless ECG monitoring system
- c. IoT-based oxygen saturation monitoring device
- d. Wireless breathing pattern monitoring device

☐ a.

☒ b.

☐ c.

☐ d.

4) How is oxygen saturation calculated using pulse-oximeter?

- a. Difference of oxyhemoglobin from total hemoglobin
- b. Product of total hemoglobin and oxyhemoglobin
- c. Ratio of total hemoglobin to oxyhemoglobin
- d. Ratio of oxyhemoglobin to total hemoglobin

☐ a.

☐ b.

☐ c.

☒ d.

5) Which of the following represents the IIoT Maturity Model in correct order?

- a. Monitor, Optimization, Control, Device autonomy, Autonomy
- b. Monitor, Control, Optimization, Device autonomy, Autonomy
- c. Monitor, Control, Optimization, Autonomy, Device autonomy
- d. Monitor, Optimization, Control, Autonomy, Device autonomy

☐ a.

☐ b.

☒ c.

☐ d.

6) AMI stands for

- a. Advanced Metering Infrastructure
- b. Automatic Metering Infrastructure
- c. Advanced Monitoring Infrastructure
- d. Automatic Monitoring Infrastructure

☒ a.

☐ b.

☐ c.

☐ d.

7)

Which of the following is not a challenge for implementing IIoT in power plants?

- a. Determinism of network
- b. Low power devices
- c. Scalability issues
- d. None of the above

☒ a.

☐ b.

☐ c.

☐ d.

8)

Which of the following are types of RFID tags?

- a. Active and Passive
- b. Wired and Wireless
- c. Real and virtual
- d. None of the above

☒ a.

☐ b.

☐ c.

☐ d.

9)

Which of the following statements is true about barcodes?

- a. Barcodes cannot be forged
- b. Barcodes can be forged
- c. Multiple Barcodes can be read at the same time
- d. Both (b) and (c)

☐ a.

☒ b.

☐ c.

☐ d.

10)

Which of the following RFID tags do not depend on RFID readers for power?

- a. Active and Passive
- b. Passive and Semi-Passive
- c. Active and Semi-Passive
- d. Active, Passive, and Semi-Passive

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

11)

Which of the following technologies isolates the user from the current world?

- a. AR
- b. VR
- c. Both (a) and (b)
- d. None

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

12)

Virtual Private Network is used to --

- a. Encrypt connection from an endpoint to a network
- b. Divide the network into smaller parts and enforce security policies
- c. Prevent unauthorized sharing of sensing data
- d. Detect and prevent malware

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

- 13) Endpoint security refers to -
- a. Securing the tasks being performed on cloud
 - b. Protection against phishing attacks
 - c. Encryption of connection between a mobile device to a network
 - d. Monitoring of mobile devices (files and processes) that access a network

☐ a.
☐ b.
☐ c.
☒ d.

- 14) Facility Management helps in reducing cost barrier by -
- a. Increasing operating efficiency and reducing installation cost
 - b. Increasing operating efficiency and reducing maintenance cost
 - c. Increasing operating speed and reducing installation cost
 - d. Increasing operating speed and reducing maintenance cost

☐ a.
☒ b.
☐ c.
☐ d.

- 15) Four main components of facility management are -
- a. Buildings, finance, contracts, and people
 - b. Buildings, finance, contracts, and devices
 - c. Buildings, finance, contracts, and information technology
 - d. Buildings, finance, contracts, and administrative services

☒ a.
☐ b.
☐ c.
☐ d.

WEEK 11 2022A

1) iHealth BP5 is an example of an _____.

☒ a. IoT-based blood pressure monitoring system

2) _____ smartphone apps help in detecting the health condition of a patient.

- ☐ a. Medical communication-enabled
- ☐ b. Medical education-based
- ☒ c. Diagnostic

3) Which of the following networks is/are used in IIoT based healthcare technology?

- ☐ a. WBAN
- ☐ b. WSN
- ☐ c. 6LoWPAN
- ☒ d. All of the above

4) Which of the following communication networks includes controllers, regulators, and data collectors?

- ☐ a. Neighborhood Area Network
- ☒ b. Field Area Network

5) A typical AMI consists of _____.

- ☐ a. Smart meters
- ☐ b. Communication networks
- ☒ c. Both (a) and (b)

6) Which of the following is true about the digital twins in power plants?

- ☒ a. Can be considered as virtual power plant

7) Which of the following is true about RFID tags?

- ☐ a. Active tags do not have any internal power source
- ☒ b. Semi-passive tags have onboard battery

8) Which of the following statements is not true about barcodes?

- ☐ a. Barcodes are printed on paper and plastic which makes them vulnerable
- ☒ b. Barcodes can contain added information

10) The full form of VPN is _____.

- ☒ a. Virtual Private Network

11) Which of these is/are the example(s) of VR?

- ☐ a. Oculus Rift
- ☐ b. Samsung Gear VR
- ☐ c. Google Cardboard
- ☒ d. All of the above

12) What is the function of Firewalls?

- ☐ a. Detecting and blocking tampering of data
- ☐ b. Encrypting connection between two hosts
- ☒ c. Acting as barriers between trusted internal network and external networks

13) Which of the following support services is used for monitoring, gathering, and disseminating relevant information and making decisions in facility management?

- ☒ a. Administrative Support

14) Which of the following is/are considered to be the application(s) of IoT in Facility Management?

- ☐ a. Lighting
- ☐ b. Refrigeration
- ☐ c. Smart Meters
- ☒ d. All of the above

15) Which of the following describe(s) the benefit(s) of using IoT applications for Facility Management?

- ☐ a. Improve customer experience
- ☐ b. Prevent unauthorized access
- ☐ c. Real time tracking
- ☒ d. All of the above

WEEK 11 2022B

1) What are the benefits of IIoT health care?

- a. Hospital staff can predict the arrival of a patient in PACU.
- b. Hygiene monitoring system can detect the cleanliness of hand
- c. Both a) and b)
- d. None of the above

- ☐ a
- ☐ b
- ☒ c

2) "Markerless AR technology is also known as position-based or location-based AR". True or false?

- a. True
- b. False

- ☒ a

3) Which of the following is/are smart phone-based healthcare app?

- a. ECG self-monitoring
- b. Instant heart rate
- c. Fingerprint Thermometer
- d. All of the above

- ☐ a
- ☐ b
- ☐ c
- ☒ d

4) Which of the following is/are the benefits of digital power plant?

- a. Improves performance
- b. Reduce cost
- c. Reduce energy and demand
- d. All the above

- ☐ a
- ☐ b
- ☐ c
- ☒ d

5) WiMAX is a wireless _____.

- a. Wide area network
- b. Field area network
- c. Neighborhood area network
- d. None of the above

- ☐ a
- ☒ b

6) What is/are the Communication network(s) used in Advanced Metering Infrastructure (AMI)?

- a. Broadband over power-line
- b. Fixed radio frequency
- c. Neither a) nor b)
- d. Both a) and b)

☐ a
☐ b
☐ c
☒ d

7) What are the components of RFID tagging system?

- a. The RFID tag and host system
- b. The RFID tag, read/write device, and host system
- c. The RFID tag, transmitter, and host system
- d. The RFID tag, read/write device, and transmitter

☐ a
☒ b

8) Which RFID tags broadcasts information signal in the form of a beacons?

- a. Active
- b. Passive
- c. Semi-Passive
- d. None of the above

☒ a

9) How are RFID tags used in transportation?

- a. Track time and place of congestion
- b. Compute delay and alternate routes
- c. Commute with efficient time and mode
- d. All the above

☐ a
☐ b
☐ c
☒ d

- 10) What is authenticity in software security?
- a. Access control based on these credentials
 - b. Assurance that data is not altered by unauthorized people
 - c. Ratio of time of functioning to the total time
 - d. None of these

☐ a
☒ b

- 11) Why do we use Intrusion prevention systems?
- a. Prevention of unauthorized sharing of sensitive data
 - b. Detection of abnormal behavior by the network
 - c. Detection and blocking attacks
 - d. All the above

☐ a
☐ b
☒ c

- 12) Which of the following is not true about AR?
- a. Enhanced reality
 - b. Can add details to things a user tries to examine
 - c. Isolate the users from the current world
 - d. None of the above

☐ a
☐ b
☒ c

13) What are the applications of IoT in Facility Management?

- a. Room Reservation and Scheduling
- b. Monitoring Stock and Usage of Supplies
- c. Both a) and b)
- d. Neither a) nor b)

☐ a

☐ b

☒ c

14) What are the benefits of facility management?

- a. Improve customer experience
- b. Prevent unauthorized access
- c. The ability to do more with less
- d. All of the above

☐ a

☐ b

☐ c

☒ d

15) What is long form of HVAC?

- a. Heating Ventilation and Air-Cleansing
- b. Heating Ventilation and Air-Conditioning
- c. Heavy Ventilation and Air-Conditioning
- d. Heating Variation and Air-Conditioning

☐ a

☒ b

WEEK 11 2023A

1) What is/are the challenges associated with healthcare?

- ☐ (a) Populations are aging all over the world
- ☐ (b) Different diseases are increasing
- ☐ (c) Expenditure of hospitals and medical clinic are increasing
- ☒ (d) All of the above

2) The number of persons aged 60 years or over is expected to increase more than _____ during 2017-2050.

- ☒ (a) Double
- ☐ (b) Triple
- ☐ (c) Quadruple
- ☐ (d) Quintuple

3) Which of the following factor(s) is/are considered in authentication in the context of software security?

- ☐ (a) Identification of user
- ☐ (b) Verification of credentials entered (local or remote)
- ☐ (c) Protection of resources
- ☒ (d) All of the above

4) The key factor(s) of software security in the context of plant security and safety is/are _____.

- ☐ (a) Integrity
- ☐ (b) Authentication
- ☐ (c) Availability
- ☒ (d) All of the above

5) What is/are the scope(s) of IoT in the facility management?

- ☐ (a) Accessing new insights
- ☐ (b) Implementing new technologies
- ☐ (c) Addressing cost barriers
- ☒ (d) All of the above

6) Which resource(s) is/are optimized in the IoT-based facility management system?

- ☐ (a) Manpower
- ☐ (b) Assets
- ☐ (c) Technology
- ☒ (d) All of the above

7) Which parameter is monitored by the device developed by Dexcom?

- ☐ (a) ECG
- ☐ (b) Blood
- ☒ (c) Glucose
- ☐ (d) Respiration rates

8) "Asthma is lifelong disease, can be controlled, not cured" ____ state whether the following statement is true or false.

- ☒ (a) True

9) Which of the following parameter(s) is/are monitored by ADAMM?

- ☒ (a) Asthma
- ☐ (b) Blood pressure
- ☐ (c) Body temperature
- ☐ (d) Oxygen saturation level

10) Select the correct option (s) from the below.

- ☐ (a) Google Fit: Keeps track of different physical activities
- ☐ (b) Health Assistant: Keeps track of health condition
- ☐ (c) Fingerprint Thermometer: Determine body temperature from the fingerprint
- ☒ (d) All of the above

11) Which of the following feature(s) act(s) as the drivers of IIoT in a power plant?

- ☐ (a) Low cost powerful chips
- ☐ (b) Standardization with IPV6
- ☐ (c) Standardization with software technology
- ☒ (d) All of the above

12) Which option(s) is/are included in the power flow of a smart grid?

- ☐ (a) Generation
- ☐ (b) Transmission
- ☐ (c) Distribution and consumption
- ☒ (d) All of the above

13) Inventory management activity entails _____.

- ☐ (a) Controlling, overseeing, and ordering
- ☐ (b) Storage
- ☐ (c) Determine supply for sale
- ☒ (d) All of the above

14) What is/are the component(s) of a facility management system?

- ☐ (a) Buildings
- ☐ (b) Finance
- ☐ (c) People
- ☒ (d) All of the above

15) The IoT-based remote patient health monitoring system is more _____.

- ☐ (a) Robust
- ☐ (b) Costly
- ☐ (c) Secure
- ☒ (d) All of the above

1)

1 point

Which of the following is/are the major challenge(s) associated with the healthcare industry?

- a. Drug overdose
- b. Wrong drug prescription
- c. Costly hospitals and clinics
- d. All of the above

- ☐ a.
- ☐ b.
- ☒ c.

2) Fill in the blanks. _____ is an example of a wireless ECG monitoring device.

1 point

- a. QardioCore
- b. BMP280
- c. ESP8266
- d. BME280

- ☒ a.

3) Which of the following is a body temperature monitoring device?

1 point

- a. Ihealth BP5
- b. Kinsa smart thermometer
- c. Dexcom
- d. ADAMM

- ☐ a.
- ☒ b.

4) Which of the following represents an intelligent asthma monitoring device?

1 point

- a. BME280
- b. Kinsa smart thermometer
- c. ADAMM
- d. Dexcom

- ☐ a.
- ☐ b.
- ☒ c.

5) Which of the following does not represent the challenge of IIoT in a power plant? 1 point

- a. Security issues
- b. Scalability issues
- c. Smart metering
- d. Low power devices

- ☐ a.
- ☐ b.
- ☒ c.

6) Fill in the blanks. _____ is the full form of SCDA. 1 point

- a. Supervisory Control and Data Acquisition
- b. Superlative Control and Data Acquittance
- c. Supervisory Condition and Data Acceptance
- d. None of the above

- ☒ a.

7) Which of the following does not represent communication networks? 1 point

- a. Home area network
- b. House area network
- c. Wide area network
- d. Neighborhood area network

- ☐ a.
- ☒ b.

State true or false — RFID tagging system comprises of RFID tag, read/write devices, and a host system.

- a. True
- b. False

- ☒ a.

9) Which of the following is true about passive RFID tags? 1 point

- a. Broadcasts information signals in the form of a beacons
- b. Relies on backscattering
- c. Have longer range than active RFID tags
- d. Bulky and expensive as compared to active RFID

- ☐ a.
- ☒ b.

10)

1 point

Which of the following is represented through the following statement?

Statement- It has an onboard battery for powering the IC but does not have an active transmitter. It relies on backscattering. However, it neither depends on signals from the reader for power nor creates additional noise.

- a. Active RFID tags
- b. Passive RFID tags
- c. Semi-passive Tags
- d. None of the above

- ☐ a.
- ☐ b.
- ☒ c.

11)

1 point

Match the following.

Types of Network Security	Description
1. Firewalls	i. Provide access based on user identity
2. Intrusion prevention systems	ii. Scan for malware detection and prevention
3. Access control	iii. Barrier between the trusted internal network and the external networks
4. Antivirus and antimalware software	iv. Detection and blocking attacks

- a. 1-iii, 2-iv, 3-i, 4-ii
- b. 1-ii, 2-iii, 3-iv, 4-i
- c. 1-i, 2-ii, 3-iii, 4-iv
- d. 1-iv, 2-i, 3-ii, 4-iii

- ☒ a.

12)

1 point

Which of the following is an example of augmented reality?

- a. Oculus Rift
- b. Samsung Gear VR
- c. Bus stop prank by Pepsi Max
- d. Google Cardboard

- ☐ a.
- ☐ b.
- ☒ c.

13) Which of the following represents IoT applications in facility management?

1 point

- a. Smart meter
- b. Security and safety alarms
- c. Both (a) and (b)
- d. Neither (a) nor (b)

- ☐ a.
- ☐ b.
- ☒ c.

14)

1 point

Which of the following does not represent the benefit of the IIoT applications in inventory management?

- a. Automation in the process of inventory tracking and packing
- b. Inability to recognize the reason behind the bottlenecks in the operation
- c. Optimization of the amount of inventory
- d. Real-time update of the quantity of inventory items, their location, and tracking

- ☐ a.
- ☒ b.

15)

Which of the following can be achieved by performing analytics in facility management?

1 point

- a. Unmanaged energy consumption
- b. Unoptimized operational cost
- c. Remote monitoring of the facilities
- d. None of the above

- ☐ a.
- ☐ b.
- ☒ c.

