

Unit 7 - Week 5

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

● Lecture 21 : Basics of Industrial IoT: Industrial Processes – Part 2

● Lecture 22 : Business Models and Reference Architecture for IIoT: Business Models – Part 1

● Lecture 23 : Business Models and Reference Architecture for IIoT: Business Models – Part 2

● Lecture 24 : Business Models and Reference Architecture for IIoT: Reference Architecture – Part 1

● Lecture 25 : Business Models and Reference Architecture for IIoT: Reference Architecture – Part 2

● Week 5 - Lecture Material

○ Quiz : Assignment 5

○ Week 5 Feedback Form

Week 6

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Detailed Assignment Solution

Live Interactive Session

Assignment 5

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

Due on 2020-03-04, 23:59 IST.

1) 1 point

How is safety defined in industrial perspective?
a. Condition of the operating system
b. No unexpected risk or damage
c. Damage to the operating system is allowed
d. Both (a) and (b).

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

2) 1 point

How does the gateway devices act in the gateway-mediated edge architecture?
a. Management point
b. Data transfer
c. Local connectivity
d. All of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

3) 0 point

In which of the given below field/s layered databus pattern is applicable?
a. Global monitoring
b. Control
c. Analytics
d. Both (a) and (b)

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

4) 1 point

How is a task defined in IIoT?
a. Not measured by time
b. Not bounded by time
c. Foundation block of work
d. None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

5) 1 point

How does an implementation map works?
a. Participates in the task
b. Execution of the task
c. Functional component of task
d. None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

6) 1 point

Which functions are performed in the operation domain of functional viewpoint?
a. Provision, monitor, optimize, configure, and remotely manage the resources
b. Provision, register, monitor, and track the resources
c. Configure, track, register, deploy, remotely manage the resources, prognostics, monitoring, and optimization
d. Track, configure, register, monitoring, optimization and manage the resources

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

7) 1 point

How do prognostics in operations domain help in IIoT systems from the functional viewpoint?
a. Acts as prescriptive analytics engine
b. Acts as predictive analytics engine
c. Acts as both predictive and prescriptive analytics engine
d. None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

8) 1 point

Business function includes
a. Supports business processes
b. Do not support any business process
c. Procedural activities
d. Both (a) and (c)

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.

9) 1 point

How is effect defined in an activity?
a. State of the CPS system
b. Structure of the system
c. State of the IIoT system after completion of an activity
d. Structure of the CPS system

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

10) 1 point

Service-oriented business models offer utilization, aggregation and analysis of -
a. Data
b. Products
c. Services
d. Software

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

11) 1 point

Companies operating a _____ employ _____ to gather data and information.
a. Process-oriented BMs, Cloud-based BMs
b. Cloud-based BMs, Service-Oriented BMs
c. Service-oriented BMs, Cloud-based BMs
d. Cloud-based BMs, Process-oriented BMs

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
c.

12) 1 point

Value configuration for process-oriented business models includes -
a. Mastering complex production processes
b. Maintenance and development of platforms
c. Development of cloud services
d. None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

13) 1 point

Patents and copyrights are examples of which of the following type of resources -
a. Physical
b. Intellectual
c. Human
d. Financial

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
b.

14) 1 point

Partnerships and alliances -
a. Reduce risks
b. Increase risks
c. Have no effect on risks
d. None of the above

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

15) 1 point

Which of the following is not an example of dynamic pricing?
a. Negotiation
b. Real time market
c. Auction
d. List price

- a.
 b.
 c.
 d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
d.