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Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

○ Lecture 6 : Industry 4.0: The Fourth Revolution (unit? unit=27&lesson=28)

○ Lecture 7 : Industry 4.0: Sustainability Assessment of Manufacturing Industry (unit? unit=27&lesson=29)

○ Lecture 8 : Industry 4.0: Lean Production System (unit? unit=27&lesson=30)

○ Lecture 9 : Industry 4.0: Smart and Connected Business Perspective (unit? unit=27&lesson=31)

○ Lecture 10 : Industry 4.0: Smart Factories (unit? unit=27&lesson=32)

○ Week 2: Lecture Material (unit? unit=27&lesson=33)

○ Week 2 Feedback Form (unit? unit=27&lesson=34)

○ **Quiz: Week 2 : Assignment 2 (assessment? name=188)**

Week 2 : Assignment 2

Assignment not submitted

Due date: 2023-08-09, 23:59 IST.

1) Which of the following is a feature of the Fourth industrial revolution? _1 point_
   a. Use of Mainframes and the Internet
   b. Mass production
   c. Utilization of machines in production processes
   d. Use of AI ML, and CPS

   ○ a.
   ○ b.
   ○ c.
   ○ d.

2) _____ has helped in producing objects that are mutable and adaptable. Fill in the blank. _1 point_
   a. Digital fabrication
   b. Additive manufacturing
   c. Synthetic biology
   d. None of the above

   ○ a.
   ○ b.
   ○ c.
   ○ d.

3) Select the option that best describes the tipping point. _1 point_
   a. Radical change in the future that leads to innovation
   b. Change that leads to failing economy
   c. A point which marks the profit in business
   d. A space in factory floor for goods collection

   ○ a.
   ○ b.
   ○ c.
   ○ d.

4) Which of the following is/are drivers of sustainability in Industry 4.0? _1 point_
   a. Globalization
   b. Socio-economic factors
   c. Environmental factors
   d. All of the above

   ○ a.
   ○ b.
   ○ c.
   ○ d.

5) Information regulation in public is covered under which of the following laws? *1 point*
   a. Employment and Labor rules
   b. Advertisement regulations
   c. Environmental rules
   d. Privacy regulation

○ a.
○ b.
○ c.
○ d.

6) How does population growth affect the manufacturing industry? *1 point*
   a. It affects the food supplies
   b. It affects the availability of industrial locations
   c. It affects the political actions and outcomes
   d. All of the above

○ a.
○ b.
○ c.
○ d.

7) Which of the following statements is true about recession? *1 point*
   a. Recession is the extremity of depression
   b. Recession stays for only two months
   c. Recession is observable on GDP of a country
   d. All of the above

○ a.
○ b.
○ c.
○ d.

8) The lean manufacturing system, introduced by Toyoto, is based on which of the following approaches? *1 point*
   a. JIDOKA
   b. JIT
   c. Both a and b
   d. SUDOKA

○ a.
○ b.
○ c.
○ d.

9) Which of the following is not an impact of the Lean production system on manufacturing? *1 point*
   a. Highest lead time
   b. Low cost
   c. High quality
   d. All of the above

○ a.
○ b.
○ c.
○ d.

10) What is KPI in the context of performance management? *1 point*
   a. Key Product Index
   b. Key Performance Indicator
   c. Key Performance Index
   d. Key Product Identifier

○ a.

○ b.
○ c.
○ d.

11)   *1 point*

Which of the following statements is/are true about smart and connected products?
    a. Smart and connected products are cheaper
    b. Decrease environmental impact
    c. Improves recall process of products
    d. All of the above

○ a.
○ b.
○ c.
○ d.

12)   *1 point*

Lock-in centric business models helps in
    a. Preventing customer migration
    b. Eliminating errors
    c. Making faster transactions
    d. Creating new market for innovative product

○ a.
○ b.
○ c.
○ d.

13)   *1 point*

What is the function of the digital layer in a smart business architecture?
    a. Data storage
    b. Data analysis
    c. Data processing
    d. All of the above

○ a.
○ b.
○ c.
○ d.

14)   *1 point*

Which of the following is not a characteristic of a smart factory?
    a. Proactivity
    b. Agility
    c. Opaque
    d. Optimization

○ a.
○ b.
○ c.
○ d.

15)   *1 point*

Which of the following falls under the Agility characteristic of a smart factory?
    a. Predicting future challenges
    b. Real-time tracking
    c. Connected smart devices
    d. Self-configuration

○ a.
○ b.
○ c.
○ d.

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers