

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

Answer: d

Justification: Refer to slides 3-6 from lecture 1 of week 2.

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

Answer: a

Justification: Refer to slides 10-11 from lecture 1 of week 2.

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3. Select the option that best describes the tipping 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

Answer: a

Justification: Refer to slides 22 from lecture 1 of week 2.

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

Answer: d

Justification: Refer to pages 58-62 from the book Introduction to Industrial Internet of Things and Industry 4.0.

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

Answer: b

Justification: Refer to slides 14-18 from lecture 2 of week 2.

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6. How does population growth affect the manufacturing industry?
- 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

Answer: d

Justification: Refer to slides 19 from lecture2 of week 2.

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7. Which of the following statements is true about recession?
- 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

Answer: c

Justification: Refer to slides 24-25 from lecture 2 of week 2.

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

Answer: c

Justification: Refer to pages 171-173 from the book Introduction to Industrial Internet of Things and Industry 4.0.

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

Answer: a

Justification: Refer to slides 9-11 from lecture 3 of week 2.

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

Answer: b

Justification: Refer to slides 12-13 from lecture 3 of week 2.

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11. 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

Answer: d

Justification: Refer to slides 3-4 from lecture 4 of week 2.

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12. 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

Answer: a

Justification: Refer to slides 13-16 from lecture 4 of week 2.

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13. 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

Answer: d

Justification: Refer to slides 22 from lecture 4 of week 2.

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14. Which of the following is not a characteristic of a smart factory?

- a. Proactivity
- b. Agility
- c. Opaque
- d. Optimization

Answer: c

Justification: Refer to slides 11 from lecture 5 of week 2.

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15. 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

Answer: d

Justification: Refer to slides 11-16 from lecture 5 of week 2.