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1. What is the role of data for emerging technologies?

- A. Determines the future of science and technology
- B. Reshaping the world and introducing a paradigm shift
- C. Defines the future of economy
- D. All of the above

2. Which industrial revolution can be called technological revolution?

- A. First industrial revolution
- B. Second industrial revolution
- C. Third industrial revolution
- D. Fourth industrial revolution

3. Which emerging technology enabling devices that can store information

- A. Memory
- B. Microprocessor
- C. Logic devices
- D. Networks

4. One of the following can't be considered as emerging technologies.

- A. Block chain
- B. Database management system
- C. Big data
- D. Digital twins

5. Which of the following is regarded as smart revolution?

- A. Information revolution
- B. Agriculture revolution
- C. Industrial revolution (Second revolution)
- D. Knowledge revolution

6. Which of the following factor is not considered as a driver of information revolution?

- A. The growth of information-based occupation
- B. The invention artificial intelligence
- C. The widespread of cheap personal computers
- D. The advent of the Internet

7. The research and development activities in IoT and AI can be examples of _____ industry

- A. Primary Industry
- B. Tertiary Industry
- C. Quaternary Industry
- D. Secondary Industry

8. What started the first Industrial Revolution?

- A. When agricultural societies became more industrialized and urban.

- B. Transition to new manufacturing processes going from hand production methods to machines
 - C. The increasing use of steam power
 - D. All of the above
9. The Bidirectional information flow between a human brain and a machine is referred to as
- A. Neuro – modulation
 - B. Social computing
 - C. Human Machine Interface
 - D. Brain computer Interface
10. One of the following is not the use of the programmable logic devices?
- A. Signal Processing
 - B. Data Communication
 - C. Data Display
 - D. Provide specific functionality
11. It is a sequence of activities involved in data transformation from its raw form to information
- A. Data collection
 - B. Data input
 - C. Data processing
 - D. Data output
12. Which of the following statement is not correct?
- A. Unstructured data are straightforward for analysis.
 - B. Big data acquisition require flexible and dynamic data structures.
 - C. Semi-structured data contains tags and markers.
 - D. Data type describe how we intend to use the data in the program.
13. What are the different activities of Big-data life cycle?
- A. Ingesting data, persisting data, computing and analyzing data, and visualizing results.
 - B. Acquisition, analysis, curation, storage, and usage.
 - C. Veracity, variability, and value.
 - D. Input, processing, and output.
14. Big Data is characterized by:
- A. Volume
 - B. Velocity
 - C. Variety
 - D. All of the above
15. Which of the following type of data is currently the most voluminous (largest) of the global data stock?
- A. Semi-structured
 - B. Structured
 - C. Unstructured
 - D. Can't be determined for sure

16. Which of the following is wrong about data type?
- A. A data type is an attribute of data in integers, Booleans, and floating-point number.
 - B. A data type is about the structure of data such as structured, unstructured, and semi-structured.
 - C. A data type is the structure of the data for a computer programming.
 - D. A data type is data about data in metadata
17. What is the purpose of data science?
- A. Extract knowledge and insight by finding patterns with data
 - B. Explore, sort and analyze mega-data from various sources
 - C. Transform business data into assets that help organizations improve revenue and reduce costs
 - D. All of the above
18. With respect to "commuting and analyzing Big data", one of the following tool is different
- A. Apache Storm
 - B. Apache Hadoop's Map Reduce
 - C. Apache Flink
 - D. Apache Spark
19. Which one of the following is not true?
- A. Data is a raw facts and figures
 - B. Information is a processed data
 - C. Data science is simply analyzing data
 - D. Meta data is data about data
20. A representation of facts, concepts, or instructions in a formalized manner, which should processing by human or electronic machine
- A. Data
 - B. Knowledge
 - C. Information
 - D. Wisdom
21. _____ is a branch of computer science by which we can create intelligence machines that can behave like a human.
- A. Block Chain
 - B. Data Science
 - C. Internet of Things
 - D. Artificial Intelligence
22. All are correct about artificial intelligence, except _____
- A. Perform knowledge intensive-task.
 - B. Has feeling and emotions
 - C. Limited for trained work.
 - D. Human dependency on machine.

Which of the following are teachers today using to enhance learning?

- A. Giving more homework
- B. providing students with Web 3.0
- C. tools to complete assignments
- D. increasing the number of field trips giving more

24. _____ is anything that can perceive its environment through sensory and acts upon environment through effectors

- A. API
- B. Agent
- C. Intelligence
- D. Expert System

25. Machine perception is achieved by _____

- A. Sensors
- B. Effectors/Actuators
- C. Machine Learning
- D. None of the above

26. An expert system differs from a database program in that only an expert system

- A. Contains declarative knowledge
- B. Contains procedural knowledge
- C. Features the retrieval of stored information
- D. Expects users to draw their own conclusions

27. Which of the following is not an advantage of Artificial Intelligence

- A. High Accuracy with fewer errors
- B. Increase dependence on machines
- C. Useful as a public utility
- D. High reliability

28. One of the following is not the application of AI.

- A. Chatbot
- B. Product recommendation
- C. Travel arrangement
- D. None

29. What type of Artificial Intelligence which is an ability of machine to learn without being explicitly programmed?

- A. Artificial Intelligence
- B. Machine Learning
- C. Deep Learning
- D. A and B

30. Artificial Intelligence (AI) devices such as Siri (Apple) Alexa (Amazon) Cortana (Microsoft), etc. can be operated by _____.

- A. Voice recognition
- B. keyboard entry
- C. gesture technology
- D. touch screen

31. _____ is the networking of smart objects that communicate intelligently in the presence of internet protocol.

- A. Block Chain
- B. Data Science
- C. Internet of Things
- D. Artificial Intelligence

32. One of the following IoT challenges that describe the connected devices communicating over networks exposes users to various kinds of security attack.

- A. Security
- B. Privacy
- C. complexity
- D. Compliance

33. Which of the following is not IoT features?

- A. Human intervention
- B. Active engagement
- C. Sensors
- D. Small device

34. One of the following is disadvantage of IoT System?

- A. Waste Reduction
- B. Device interoperability
- C. Use of Optimized Technology
- D. Enhanced Data Collection

35. IoT devices in the form of wearable's like Fitbit, smart eyeglass and health monitors makes life much easier. This is an application of IoT in

- A. Retail
- B. Consumer use
- C. Smart City
- D. Utilities

36. Which layer of the IoT architecture is responsible to take measurements such as temperature, air quality, speed, humidity, pressure, flow, movement and electricity etc.?

- B. Virtual Reality
- C. Mixed Reality
- D. Computer Simulated Reality

44. Suppose you have a cell-phone app that is designed in such a way that when camera is focused on a historical monument, it displays a digital information about the monument. Which technology do you think is this app using?

- A. Augmented Reality
- B. Augmented Virtuality
- C. Virtual Reality
- D. Mixed Reality

45. Which one of the following is not true?

- A. Virtual Reality is immersive
- B. Augmented Reality uses the existing environment and overlays new information on top of it.
- C. Augmented Reality is also called a computer-simulated Reality
- D. A & C

46. _____ In Augmented reality architecture makes the user interface available in browser?

- A. Client tier
- B. Server Tier
- C. Mid Tier
- D. Data Tier

47. One of the following statements is not correct about virtual reality

- A. A new world is created out of the mixt of virtual and physical objects
- B. Uses head-mounted devices to display a digital world of imagery and sound
- C. Completely separates the user from its real environment
- D. None of the above

48. Which of the following is not immersive technologies?

- A. Virtual reality
- B. Real environment
- C. Augmented reality
- D. Virtual environment

49. One of the following is true about Virtual reality?

- A. Google class is an example of virtual reality device
- B. Smart phone are used in virtual reality
- C. It requires devices like Head mounted display
- D. Users can interact with real environment objects

50. A type of VR environment in which subjects are visually isolated from the real environment

- A. Immersive
- B. Semi-immersive
- C. Non immersive
- D. Augmented