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Part I: Say True/ false (1 point each)

1. In Augmented Reality there is no change in perception of reality.
2. The data processing layer shares the result of data processing with other connected devices via the sensor layer.
3. Integrating ethics into technology at earlier development stage can guarantee that the technology will not be abused in the future.
4. AI machines are highly reliable and can perform the same action multiple times with high accuracy.
5. Motion Sensors collects information about the physical position and orientation of the IoT device.

Part II: Multiple Choice (2 point each)

1. Which of the following is not Consumer connected devices?

    a. Smart appliances   c. Smart speakers

    b. Wearables   d. Smart traffic technologies

2. Which of the following correctly describe about optical-see through visualization technology?

    a. The real world is seen through half transparent mirrors in front of the user's eyes.

    b. The user can see the virtual and real information at the same time.

    c. It uses an HMD that employs optical combiners to merge the images within an open-view HMD.

    d. All

    e. All except A

3. Which of the following statements is not true about Application Programming Interfaces (APIs)?

    a. API injects a level of flexibility into the application lifecycle.

    b. It helps in making the task easier to connect and interface with other applications.

    c. It enables software components to communicate with each other easily.

    d. None

4. Which of the following is not advantage of Internet of Things?

    a. Minimize human effort   d. A and C

    b. Improved data collection   e. None

    c. Compatibility of devices

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5. Which of the following is different?

    a. Temperature sensor

    b. Magnetic Sensor

    c. Light sensor

    d. Ultraviolet sensors

6. As a darker side of technology, some technologies might use biased data for their algorithmic decision making. This might result in_____

    a. Inclusive outcome

    b. Discriminatory outcome

    c. Biased outcome

    d. Exclusive outcome

    e. All except A

    f. B and D

7. In the course of mapping human thinking to artificial intelligence components, in which stage reasoning and thinking process done?

    a. Interacting layer

    b. Interpretation layer

    c. Sensing layer

    d. None

8. User should be involved in every decision-making process while developing a new technology. This is because_____

    a. In order to have an interactive system.

    b. In order to identify problems at earlier stage.

    c. In order to handle issue of uncertainty of future technology.

    d. All except C   E. All

9. One of the disadvantages of IOT is that "the chance that a hacker could steal confidential information increase" this is because_____

    a. Number of connected device increase.

    b. The amount of information shared between device increase.

    c. There's no international standard of compatibility for IOT device.

    d. All except C

    e. All

10. Which of the following ethical questions relates to the increasing use of big data?

    a. Biases in big data may result in inferior business outcome.

    b. Decisions are very specifically based on individual preferences and hypothesis.

    c. where systems learn from real-world data, those systems simply recreate the past and subsequently build in errors or systemic biases.

    d. All except B

    e. All

11. Suppose Mr. X send a message to Mr.Y , In between the message is intercepted by third party and delivered to Mr. Z despite the knowledge of Mr. X Which privacy is violated?

   a. Individual Privacy
   b. Communication Privacy
   c. Information Privacy
   d. Personal Privacy

12. Which one is false about IoT technology?

   a. IoT is the network of physical objects embedded with software's, sensors, and network connectivity which enables these objects to collect and exchange data.
   b. IoT is the networking of smart objects, meaning a huge number of devices intelligently communicate in the absence of Internet protocol that cannot be directly operated by humans.
   c. IoT is the networking of smart objects in which these objects have some constraints like limited bandwidth, power, and processing for achieving interoperability.
   d. IoT is a framework of all things that have a representation in the presence of the internet.

13. At which Levels of AI system, machines could go beyond the capabilities of humans and build up expertise in a specific domain.

   a. Stage 4 Reasoning Machines
   b. Stage 6 Artificial Super Intelligence
   c. Stage 3 Domain Specific Expertise
   d. Stage 5 Artificial General Intelligence

14. Which of the following is not a professional leadership principle?

   a. Create opportunities for members of the organization or group to grow as professionals.
   b. Manage personnel and resources to enhance the quality of working life.
   c. Articulate, apply, and support policies and processes that reflect the principles of the Code.
   d. Ensure that the public good is the central concern during all professional computing work.
   e. None

15. In which level of artificial intelligence has the ability to solve the problem related to world hunger and dangerous environmental change.

    a. Artificial General Intelligence

    b. Self-Aware Systems

    c. Artificial Super Intelligence

    d. Singularity and Transcendence

Part III: Match column A with B (1.5 point each)

A	B
1. Self-driving cars	a. Position Sensor
2. Reasoning Machines	b. Transparency
3. Digital Privacy principle	c. Created the first AI
4. Alan Turing	d. Limited memory machines AI
5. GPS	e. Publishes Computing Machinery and Intelligence
	f. Motion sensor

Part IV: fill the blank space (1.5 point each)

1. IoT devices share the sensor data they collect by connecting to _____.

2. _____ allows you to design immersive experiences that isolate users from the real world.

3. _____ refers to the protection of an individual's information that is used or created while using the internet on a computer or personal device.

4. An agent is anything that can perceive its environment through _____ and acts upon that environment through _____.

5. The combination of hardware architecture and software framework including application frameworks, that allows AI software to run is called_____.