2. Human and Machine Interaction

Worksheet

A. Choose the correct option:

1. Entertainment and information were primarily delivered through _____ media such as vinyl records, cassette tapes, VHS tapes during yesteryears.

   (a) Analog
   (b) Digital
   (c) Hybrid
   (d) None of these

2. The first IoT device was a _____ machine at Carnegie Mellon.

   (a) vending
   (b) ATM
   (c) soda
   (d) popcorn

3. One of the components of HMI under hardware is

   (a) OS.
   (b) touchscreen.
   (c) runtime.
   (d) developer.

4. _____ is the stage of translating the intention into one of the actions possible at the moment.

   (a) Evaluation
   (b) Intention
   (c) Execution
   (d) Selection

5. Which of the following is not a type of HMI?

   (a) CLI
   (b) GUI
   (c) VI
   (d) NLP

6. Interaction where machines understand, anticipate, and respond to human needs and behaviour using artificial intelligence and machine learning algorithms is

   (a) Intuitive.
   (b) Cognitive.
   (c) Haptic.
   (d) Basic computer.

7. Good coordination between the operator and _____ helps to monitor and control the system.

   (a) machine
   (b) people
   (c) buttons
   (d) government

8. Which of the following is one of the disadvantages of HMI?

   (a) Improved accuracy
   (b) Increased capacity
   (c) Expensive
   (d) Flexible

9. In future, tools will allow people to communicate with machines without relying on their

   (a) feelings.
   (b) brains.
   (c) emotions.
   (d) strength.

10. It is an interactive experience that combines the real world and computer-generated content.

    (a) IoT   (b) NLP

    (c) Steaming services   (d) Augmented reality

B. Rewrite the statements correcting the mistakes in it.

1. HMI is solely a display screen.

2. The HMI components only include buttons and indicators.

3. HMI has only one level, involving basic touch interactions.

4. HMI is primarily used for aesthetics, not practical functions.

5. HMI simply displays data, without interacting with the underlying systems.