Chapter-8
Latest Technological Advancements

Section A: Fill in the Blanks

1. _____ is the branch of computer science that aims at creating intelligent machines that can simulate human qualities.

2. _____ is a type of computer program that performs tasks on behalf of the user, such as searching the internet.

3. _____ is the blending of virtual reality and real life, where virtual content is superimposed on the real world.

4. _____ is a system of connected devices that can transfer data over a network without human intervention.

5. _____ is the process of making a physical object from a three-dimensional digital model.

Section B: True or False

1. Artificial Intelligence (AI) is only used in smartphones and not in other industries. (True/False)

2. Augmented Reality (AR) and Virtual Reality (VR) are the same technologies. (True/False)

3. The Internet of Things (IoT) allows devices to transfer data over a network without human intervention. (True/False)

4. 3D Printing can only be used in the construction industry. (True/False)

5. Robotic Process Automation (RPA) is used to automate repetitive tasks in various industries. (True/False)

Section D: Multiple Choice Questions

1. Which of the following is NOT a component of an expert system?

   a) Human Expert

   b) Knowledge Engineer

   c) Hideback Engine

   d) Virtual Reality Headset

2. What is the primary purpose of **Augmented Reality (AR)**?

   a) To create a completely virtual world

   b) To superimpose virtual content on the real world

   c) To automate repetitive tasks

   d) To print 3D objects

3. Which of the following is an example of an IoT device?

   a) Smartphone

   b) Refrigerator

   c) Washing machine

   d) All of the above

4. What is the main application of **3D Printing** in the medical field?

   a) Building houses

   b) Creating prosthetics

   c) Automating tasks

   d) Superimposing virtual content

5. Which of the following industries uses **Robotic Process Automation (RPA)** for claims processing?

   a) Healthcare

   b) Insurance

   c) Telecom

   d) Travel

Quiz: Latest Technological Advancements

Question 1: What is the primary goal of Artificial Intelligence (AI)?

a) To create virtual worlds

b) To simulate human intelligence and perform tasks

c) To automate traffic systems

d) To print 3D objects

Question 2: Which of the following is an example of Augmented Reality (AR)?

a) Oculus Rift

b) Google Glass

c) Roomba

d) Shakey

Question 3: What is the main function of the Internet of Things (IoT)?

a) To create virtual worlds

b) To connect devices and transfer data without human intervention

c) To automate repetitive tasks

d) To print 3D objects

Question 4: Which of the following is a use case of 3D Printing in medicine?

a) Building houses

b) Creating prosthetics

c) Automating tasks

d) Superimposing virtual content

Question 5: What is the primary purpose of Robotic Process Automation (RPA)?

a) To create virtual worlds

b) To automate repetitive tasks in organizations

c) To print 3D objects

d) To superimpose virtual content