

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