

CHAPTER-7 EVOLUTION OF AI

Exercises

A. Tick (✓) the correct option -

1. _____ launched a driverless car in 2014.
a. Google b. Tesla c. Honda
2. _____ is a virtual assistant developed by Amazon.
a. Alexa b. Cortana c. Siri
3. Honda released _____ an artificial humanoid robot in 2000.
a. Sophia b. KISMET c. ASIMO

B. Fill in the blanks -

1. The first chatbot Eliza was created by Joseph Weizenbaum in 1966.
2. John McCarthy created the programming language LISP in 1958.
3. In 1967 WABOT was created by Ichiro Kato.
4. Microsoft launched Cortana in 2014.

C. Write True or False -

1. Bombe is a machine that can decode, encode messages. True
2. Allen Turing coined the term Artificial Intelligence in a conference. False
3. WABOT was able to grip and transport objects with his legs. False
4. Deep Blue created by IBM defeated the chess grand-master Gary Kasparov. True

Answer the following questions -

1. Describe Artificial Intelligence and its benefits in our lives.

The ability of a machine to think and learn is called Artificial Intelligence.

Benefits of AI:

- Efficiency through task automation.
- Data analysis for informed decisions.
- Assistance in medical diagnosis.
- Advancement of autonomous vehicles.

2. Who is Ichiro Kato? What did he do in the field of AI?

In 1967, WABOT was created by Ichiro Kato. This was the first step towards building a humanoid robot. WABOT walked with his lower limbs and was able to grip and transport objects with his hands.

3. Describe the major evolution of AI in the period 1971 - 2000.

Major Evolution of AI during 1971-2000

- In 1980, WABOT-2 was created at Waseda University, which was the successor of WABOT-1. It was capable of playing a piano.

- In this period, Deep Blue, created by IBM, defeated the chess Grandmaster Garry Kasparov in 1997.

4. Describe some voice assistants and their developing countries.

Ans - Siri - A voice assistant was launched by Apple Inc. in 2011. It uses a natural language user interface to infer, observe, answer and give recommendations to users.

Cortana - A virtual assistant similar to Siri, was launched by Microsoft in 2014.

Google - Developed a personal voice assistant named Google Home in 2016.