

# Worksheet

1

Name: .....

Roll No: ..... Class: ..... Section: .....

Date: .....

## EVOLUTION OF AI

### Chapter-1

#### A. Write T for true and F for false.

1. LISP was extensively used to program AI systems. ....
2. ELIZA was the successor of WABOT-1. ....
3. Apple released Siri in 2011. ....
4. Amazon Alexa is a smart speaker functioning as a personal assistant. ....
5. Deep Blue defeated Gary Kasparov in 1999. ....
6. In 1956, John McCarthy coined the term Artificial Intelligence. ....

#### B. Answer the following questions:

1. What is ELIZA?  
.....
2. What is Roomba?  
.....
3. Name the two robots involved in NASA's Mars Exploration Mission in 2004.  
.....
4. What do you mean by Kinect?  
.....
5. What is Cortana?  
.....
6. What is Kismet?  
.....

# Worksheet

2

Name: .....

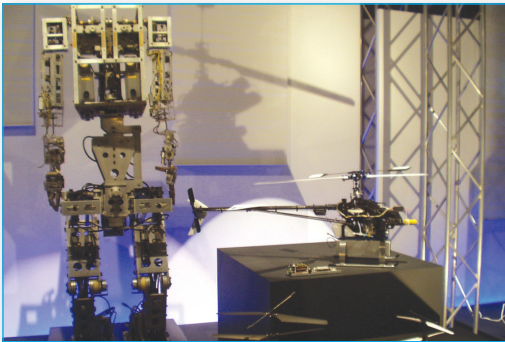
Roll No: ..... Class: ..... Section: .....

Date: .....

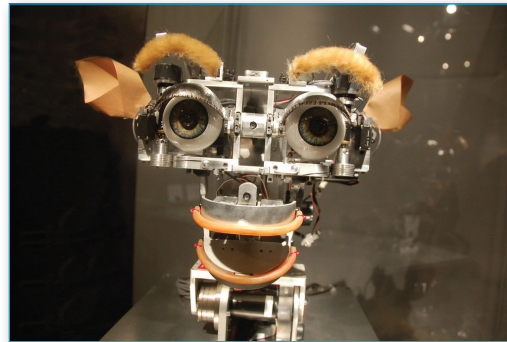
## EVOLUTION OF AI

### Chapter-1

**A. Identify the pictures and write their names in the space provided.**



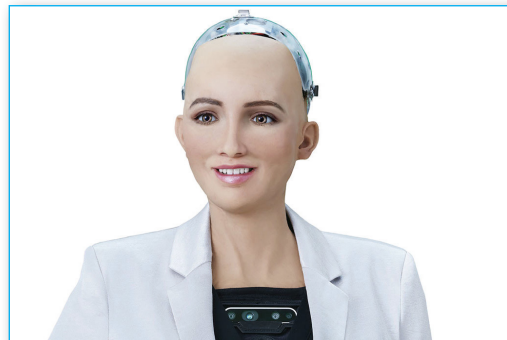
1. ....



2. ....



3. ....



4. ....

**B. Match the following:**

1. Alan Turing
2. John McCarthy
3. Joseph Weizenbaum
4. Ichiro Kato
5. Cynthia Breazeal
6. Microsoft

- a. Cortana
- b. WABOT
- c. Kismet
- d. The Bombe
- e. ELIZA
- f. LISP

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## AI-TERMINOLOGIES

### Chapter-2

#### A. Write T for true and F for false.

1. Computer is an electronic device that can store and process data according to the instructions given to it. ....
2. AI is an advanced and capable technology that has the potential to change the future of the world. ....
3. Deep learning allows a machine to independently mimic human thought patterns. ....
4. Face recognition systems can recognise familiar patterns quickly and accurately. ....
5. Deep learning is a branch of computer science that pursues the creation of computers and machines which are as intelligent as human beings. ....

#### B. Answer the following questions:

1. According to the father of Artificial Intelligence, John McCarthy, what is AI?  
.....
2. What is Expert System?  
.....
3. How AI is helpful in improving the interaction of humans and machines?  
.....
4. What is pattern recognition?  
.....

# Worksheet

2

Name: .....

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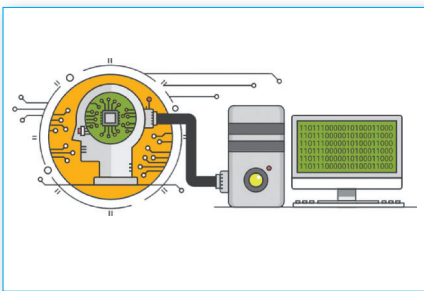
## AI-TERMINOLOGIES

### Chapter-2

#### A. Answer the following in one word:

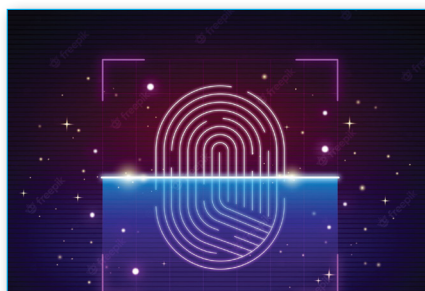
1. It is an advanced and capable technology that has the potential to change the future of the world.  
.....
2. This system shows intelligent behaviour, learn, demonstrate, explain, and advice its users with the best outcomes in a certain scenario.  
.....
3. It helps an AI machine to learn on its own.  
.....
4. It is a subset of machine learning.  
.....

#### B. Look at the images and write their names in the space given below.



1. ....

2. ....



3. ....

4. ....

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## AI IN POPULAR APPS

### Chapter-3

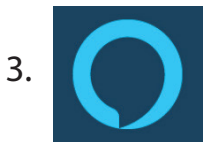
#### A. Match the following:



a. Practo



b. YouTube



c. Siri



d. Alexa



e. Cortana

#### B. Write T for true and F for false.

1. The future of AI is where the machine will teach themselves. ....
2. Siri can be activated on an iPhone by saying 'OK Google'. ....
3. Cortana is an app available in mobile store. ....
4. Billions of users log in on the YouTube platform in a month. ....
5. Swiggy is a food delivering app. ....

# Worksheet

2

Name: .....

Roll No: ..... Class: ..... Section: .....

Date: .....

## AI IN POPULAR APPS

### Chapter-3

#### A. Answer the following questions:

1. What is Siri?

.....

2. What is Alexa?

.....

3. What is the use of Practo app?

.....

4. What is the use of AI in Netflix?

.....

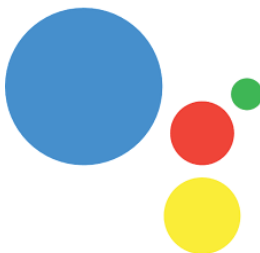
#### B. Write the names of the following apps:



1. ....



2. ....



3. ....



4. ....

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## SUSTAINABLE DEVELOPMENT GOALS (SDGs)

### Chapter-4

#### A. Write T for true and F for false.

1. These days we have machines that can think and give responses close to a human being. ....
2. Goal 2 aims to seek sustainable solutions to end hunger by 2030. ....
3. Goal 14 aims to protect and restore ecosystems. ....
4. Goal 7 aims to grant women and girls with equal rights. ....
5. Goal 17 aims to protect biodiversity. ....

#### B. Identify the following icons and write their names.



1. ....



2. ....



3. ....



4. ....

# Worksheet

2

Name: .....

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## SUSTAINABLE DEVELOPMENT GOALS (SDGs)

### Chapter-4

#### A. Answer the following questions:

1. What is the principle of SDGs?

.....

2. What is the aim of Goal 2?

.....

3. How does Goal 7 ensure access to affordable, reliable, sustainable and modern energy for all?

.....

4. What is the aim of Goal 13?

.....

#### B. Match the following:

1.



a. Goal 16

2.



b. Goal 13

3.



c. Goal 3

4.



d. Goal 11



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## PARTS OF ROBOTS

### Chapter-5

#### A. Fill in the blanks with the hints given below:

**Hints:** Humans, Mobile robots, Three, Light sensors, Proximity sensors

1. .... are organic entities.
2. There are ..... widespread types of Locomotive devices.
3. .... use laser light to detect objects in the pathway.
4. .... are used to measure the distance of any object from a robot.
5. .... use high-capacity batteries.

#### B. Answer the following questions:

1. What is robotics?

.....  
.....

2. What is gripper?

.....  
.....

3. What do you mean by controller of a robot?

.....  
.....

4. What is Strong Sensory Controller?

.....  
.....

5. What are sensors in robots?

.....  
.....

# Worksheet

2

Name: .....

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## PARTS OF ROBOTS

### Chapter-5

#### A. Match the following:

- |                        |  |
|------------------------|--|
| 1. Pressure sensors    | a. are used to detect sounds.                                    |
| 2. Temperature sensors | b. use high-frequency sounds to detect objects                   |
| 3. Microphones         | c. are used to detect changes in position, velocity, force, etc. |
| 4. Contact sensors     | d. sense temperature.  |
| 5. Sound sensors.      | e. sense pressure.   |

#### B. Write T for true and F for false.

- |   |       |
|---|-------|
| 1. Robots cannot do anything by themselves.   | ..... |
| 2. Humans can handle only specialised tasks.  | ..... |
| 3. End effectors are attached to the robot's wrist and controlled through a computer. | ..... |
| 4. Robots use muscles to give movements to their arms, palms and fingers.             | ..... |
| 5. Pre-Programmed robots are insensitive to their changing environment.               | ..... |

#### C. Define the following terms:

- |                      |       |
|----------------------|-------|
| 1. Manipulator       | ..... |
| 2. End effector      | ..... |
| 3. Simple Controller | ..... |