

Name: _____

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Chapter-1

CLASS 5

DATA STORAGE AND MEMORY

A. Tick (✓) the correct option.

1. Which of the following has the highest storage capacity?

a. Hard disk

☐

b. Pen drive

☐

c. DVD

☐

d. Flash Drive

☐

2. Which one of these is an example of non-volatile memory of the computer?

a. ROM

☐

b. CD

☐

c. RAM

☐

d. Memory card

☐

3. Which one of these is a device covered with a magnetic coating?

a. Optical Disc

☐

b. Magnetic Disk

☐

c. Hard Disk

☐

d. DVD

☐

B. Fill in the blanks using the hints given below:

Hints: platters, nibble, hard disk, storage

1. The devices are used to store data and information.

2. CPU can directly access

3. A group of 4 bits is known as a

4. Hard disk consists of one or more magnetic disks called

C. Write 'T' for true and 'F' for false.

1. RAM is a permanent memory.

.....

2. Blu-ray disc is an optical disc.

.....

3. The basic unit for measuring the memory of a computer is bit.

.....

4. DVD stands for Digital Versatile or Video Disc.

.....

Grade:



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DATA STORAGE AND MEMORY

A. Rearrange the letters to get the name of memory devices.

1. ORYMEM CADR
2. DRAH KSID
3. LHASF RDIEV
4. MGAENTCI IDSK
5. MAOCTCP CISK

B. Answer the following questions:

1. What is hard disk?

.....

2. What is memory card?

.....

3. Name the types of CD.

.....

C. Name the following devices:



1.



2.



3.



4.

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Chapter-2

CLASS 5

INTRODUCTION TO EXCEL 2016

A. Explain the following:

1. Block
2. Active cell
3. Column Heading

B. Tick (✓) the correct option.

1. Which of the following are in-built formulas in Excel 2016?

a. Functions	☐	b. Auto fill	☐
c. Ribbon	☐	d. Name Box	☐
2. We can also save the workbook by pressing keys.

a. Ctrl+S	☐	b. Ctrl+A	☐
c. Ctrl+P	☐	d. Ctrl+B	☐
3. Which of these is a collection of worksheets?

a. Workbook	☐	b. Cell range	☐
c. Block	☐	d. Cell	☐
4. Which of the following is a collection of two or more cells?

a. Workbook	☐	b. Cell range	☐
c. Block	☐	d. Cell	☐

C. Write 'T' for true and 'F' for false.

1. Worksheet navigation buttons are located on the right side of the worksheet tab.
2. A group of cells when selected forms a rectangle which is called a block.
3. An excel file is called workbook.

Name: _____

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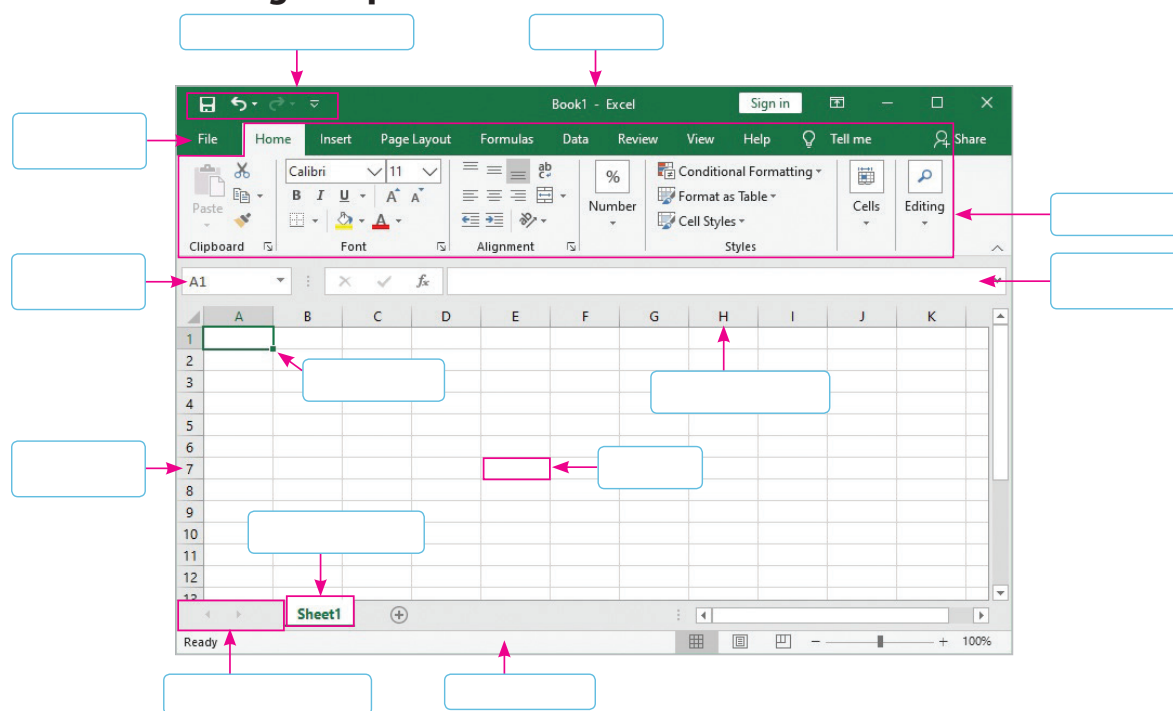
Class: _____ Section: _____ Date: _____

Chapter-2

CLASS 5

INTRODUCTION TO EXCEL 2016

A. Label the following components of Excel 2016 interface.



B. Fill in the blanks using the hints given below:

Hints: Editing, Cells, Delete, Column, Number

- To edit any content, you have to select the _____.
- To select a column, place the mouse pointer on the _____ header.
- Time and date can be entered in a cell from _____ group under Home tab.
- To delete the contents of cells, select the cells and press the _____ key.
- The Fill button is in the _____ group under Home tab.

C. Answer the following questions:

- List any two features of Excel 2016.
.....
- What is a cell range? How can you select a range of cells using the mouse?
.....

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Chapter-3

CLASS 5

MORE ON POWERPOINT 2016

A. Tick (✓) the correct option.

1. Which box helps to insert text in the slides?

a. Slide

☐

b. Placeholder

☐

c. WordArt

☐

d. Shapes

☐

2. Through which tab, the ready-made templates can be inserted?

a. Insert

☐

b. Design

☐

c. File

☐

d. Layout

☐

3. Which tab contains the autoshapes?

a. Shapes

☐

b. Illustrations

☐

c. Insert

☐

d. Home

☐

B. Fill in the blanks using the hints given below:

Hints: justify, placeholder, format, design

1. is a dotted box that holds the text, image, chart, audio etc.

2. Themes are present under tab.

3. Shape fill command is present under tab.

4. alignment aligns the left and right margin.

C. Match the following:

1. ClipArt

a. Set of predefined layouts.

2. WordArt

b. Set of ready-made or auto shapes.

3. Templates

c. Set of ready-made pictures or graphics.

4. Shapes

d. Set of well-developed presentations.

5. Themes

e. Set of text styles.



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Chapter-3

CLASS 5

MORE ON POWERPOINT 2016

A. Find six words related to presentation in the given grid.

W	C	L	I	P	A	R	T	I	T
O	S	N	E	A	W	N	C	F	O
R	H	O	T	E	O	D	O	O	D
D	A	C	K	G	R	O	U	N	P
A	P	X	B	R	M	N	U	T	L
R	E	I	N	E	A	T	M	T	M
T	S	O	N	E	A	E	N	E	N
H	T	E	M	P	L	A	T	E	S

B. Answer the following questions:

1. Define Placeholder.

.....

.....

2. What do you mean by templates?

.....

.....

3. Name the different types of alignment.

.....

.....

4. What do you mean by Theme Backgrounds? Write steps to insert a WordArt on the slide.

.....

.....

Name: _____
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INTERNET AND E-MAIL

A. Read the clues and answer the following:

- It is an address of a web page over the Internet.
.....
- It is an Internet host computer that often store thousands of individual web pages.
.....
- It is a system of interconnected networks.
.....
- It is a collection of related web pages.
.....
- It is a software application designed to find hypertext documents on the web and then open the documents on the user's computer.
.....

B. Circle the correct option.

- (Internet / E-mail) is a huge, cooperative community with no central ownership.
- The seeds of the Internet were planted in (1959 / 1969).
- (HTTP / WWW) is a large information system where you can surf and get information.
- A collection of related pages is called (website / web browser).
- A (web browser / hyperlink) is simply a part of the web page that is linked to a URL.

C. Name the different parts of the following email:

orangeeducation123@gmail.com

1.

2.

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Chapter-4

CLASS 5

INTERNET AND E-MAIL

A. Write the full forms of the following:

1. ARPA -
2. HTTP -
3. WWW -
4. NCSA -
5. URL -

B. Tick (✓) the correct option.

1. E-mail can be defined as the process of exchanging electronically.

a. Hardware	☐	b. Instructions	☐
c. Messages	☐	d. Information	☐
2. Which of the following fields is not available while writing a new email in Gmail?

a. To	☐	b. Cc	☐
c. Subject	☐	d. New Message	☐
3. Which of these is used to show Sleeping expression emoticon?

a. (-_-)zzz	☐	b. (= _ =)	☐
c. :\$	☐	d. None of these	☐

C. Match the following:

- | | |
|--------------------------------|------------------------------|
| 1. Internet | a. Software application |
| 2. Collection of related pages | b. Web address of a web page |
| 3. Web browser | c. A large computer network |
| 4. URL | d. Website |

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

Chapter-5

CLASS 5

DATA PROCESSING

A. Tick (✓) the correct option.

- Which of the following option is the most common type of malware?
 a. Worm ☐ b. Virus ☐ c. Spyware ☐
- Which of the following option tracks user's browser and download history and keeps popping advertisements on the screen?
 a. Virus ☐ b. Trojan Horse ☐ c. Adware ☐
- Which of the following option is a set of programs that identify and remove malware?
 a. Antivirus ☐ b. Emotet ☐ c. Virus ☐

B. Write 'T' for true and 'F' for false.

- Mydoom Worm would spread itself with the message: "Hacked By Chinese!"

- Wabbit Virus (1974) makes multiple copies of itself until the system slows down and crashes.

- Emotet secretly infects a smartphone (Android or iOS) and tracks the device completely for every action.

- Storm Worm (2007) attacked millions of computers with an email about approaching bad weather.

C. Match the following:

- | | |
|-------------|---------|
| 1. Storm | a. 2014 |
| 2. Code Red | b. 2001 |
| 3. Emotet | c. 2016 |
| 4. Pegasus | d. 2007 |

Name: _____
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DATA PROCESSING

A. Find the given words in the following grid:

Hints: Trojan, Spyware, Adware, Virus, Worm

P	C	B	T	Y	S	Z	N	D	A
N	U	V	U	F	E	H	M	U	D
S	J	O	T	R	O	J	A	N	W
Z	P	J	N	V	K	G	O	L	A
T	Y	Y	I	M	R	O	W	B	R
X	C	R	W	Y	G	S	F	Z	E
I	U	H	O	A	B	O	I	H	W
S	V	G	H	Y	R	K	C	K	M
Z	S	K	D	F	Z	E	U	S	W
I	H	F	M	L	E	Q	A	D	J

B. Answer the following questions:

1. Write any three harms caused by computer malware.

.....
.....

2. Write about the don'ts to protect the computer?

.....
.....

C. Competency-based/Application-based question:

Harshit was using his computer when, after a few minutes, his system started slowing down, and then it suddenly crashed. Which malware attacked his system?

.....
.....

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CREATING SHAPES IN SCRATCH

A. Guess who am I?

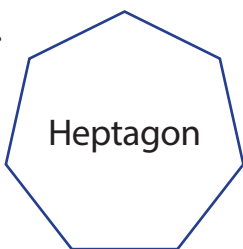
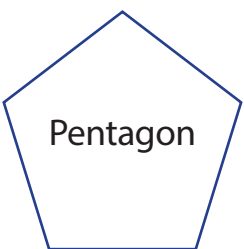
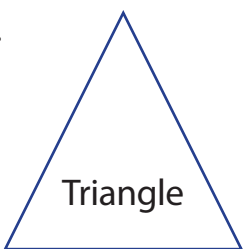
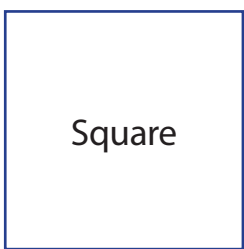
1. I am the main actor in the program.
2. You cannot run a program without me.
3. I am the background where sprite is placed.
4. I am a block which controls how a sprite will appear.
5. I can stop the program from running.

B. Fill in the blanks using the hints given below:

Hints: erase all, stamp, add extension, repeat, polygon

1. block deletes everything drawn on the stage.
2. block is used to create a duplicate of the sprite.
3. button is located at bottom left corner of the code tab.
4. are 2d shapes closed by straight lines.
5. blocks will be used to draw a square.

C. Count and write the number of sides and degree of turn for the given shapes.

- | | | | |
|--|--|---|--|
| 1.  | 2.  | 3.  | 4.  |
| Sides | Sides | Sides | Sides |
| Degree | Degree | Degree | Degree |

Name: _____

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Class: _____ Section: _____ Date: _____

Chapter-6

CLASS 5

CREATING SHAPES IN SCRATCH

A. Match the following polygons with the commands:

- | | | |
|-------------|---|---|
| 1. Decagon |  | a. Repeat 8 Move 100 Steps Turn 45 degrees |
| 2. Pentagon |  | b. Repeat 9 Move 100 Steps Turn 40 degrees |
| 3. Octagon |  | c. Repeat 10 Move 100 Steps Turn 36 degrees |
| 4. Triangle |  | d. Repeat 5 Move 100 Steps Turn 72 degrees |
| 5. Nonagon |  | e. Repeat 3 Move 100 Steps Turn 120 degrees |

B. Write 'T' for true and 'F' for false.

- You cannot draw a shape in scratch.
- To draw a circle you need to rotate the sprite by 180 degrees.
- Pen down block is used to start drawing lines as the sprite moves.
- Heptagon has 8 sides.
- To draw an octagon the angle value should be 40 degree.

C. Answer the following questions.

- What are polygons? Name any four polygon shapes.

.....

.....

- What is the use of Pen block in Scratch?

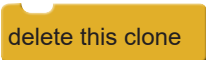
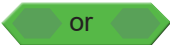
.....

.....

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ADVANCED BLOCKS & GAME CREATION

A. Match the following:

- | | |
|-------------------|---|
| 1. Boolean Blocks | a.  |
| 2. Stack Blocks | b.  |
| 3. CAP Blocks | c.  |
| 4. C Blocks | d.  |
| 5. Hat Blocks | e.  |

B. Guess who am I?

- I am used to make the penguin ask question.
- I am an another name of C block.
- I am used to make the penguin move.

C. Write 'T' for true and 'F' for false.

- In scratch, a program is called a Script.
- Reporter blocks cannot hold values which consist of numbers or strings.
- A variable that stores letters in the form of strings or characters is called string variable.
- We cannot create our own variables in Scratch.

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ADVANCED BLOCKS & GAME CREATION

A. Tick (✓) the correct option.

- Boolean blocks are in shape.
 a. Octagonal ☐ b. Pentagonal ☐ c. Hexagonal ☐
- Which of the following is a cap block?
 a. When green flag is clicked ☐
 b. forever ☐
 c. think ☐
- There are types of block shapes in Scratch.
 a. Five ☐ b. Six ☐ c. Seven ☐

B. Fill in the blanks using the hints given below:

Hints: hat, boolean blocks, ask, variable

- blocks are always found at the beginning of the script.
- are conditional blocks that return "true" or "false".
- blocks is used to ask for some input from the user.
- is a space in the memory that can hold some information.

C. Answer the following questions.

- Name two blocks from the sensing block category.

- What is the use of conditional blocks?

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AI IN POPULAR APPS

A. Match the following:

1.



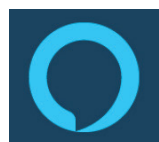
a. Practo

2.



b. YouTube

3.



c. Siri

4.



d. Alexa

5.



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.

Name: _____

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Chapter-8

CLASS 5

AI IN POPULAR APPS

A. Answer the following questions:

1. What is Siri?

.....

2. What is Alexa?

.....

3. What is the use of Practo app?

.....

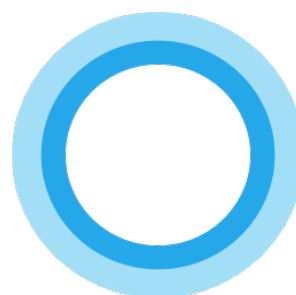
4. What is the use of AI in Netflix?

.....

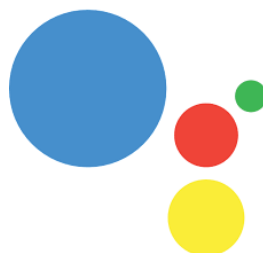
B. Write the names of the following apps:



1.



2.



3.



4.

Grade:



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Chapter-9

CLASS 5

TRENDING ROBOTS

A. Match the following:

1.



a. The Iron Giant

2.



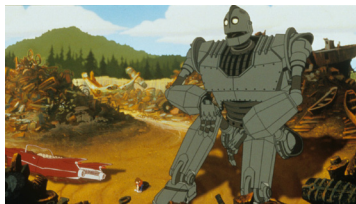
b. Shadow art

3.



c. Wall E

4.



d. I, Robot

B. Answer the following questions:

1. How does Shadow Art help kids?

.....

2. What is AutoDraw?

.....

3. What are the laws of robotics?

.....

Grade:



Teacher's Signature: _____

TRENDING ROBOTS

A. Answer the following questions:

- How does Shadow Art help kids?

.....

- What is AutoDraw?

.....

- What are the laws of robotics?

.....

B. Look at the pictures given below and write the name of the movies.

1.



.....

2.



.....

C. Rearrange the following and write the correct words in the space provided:

- ATDA GMASE

.....

- UATO DARW

.....

- RTOBOS

.....

- LLAW E

.....

- MRICOTOBS

.....

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

Chapter-10

CLASS 5

ANGLES AND VALUE CONVERSION

A. Tick (✓) the correct option.

1. A square has how many angles?

a. 2

☐

b. 3

☐

c. 4

☐

d. 5

☐

2. Circle is drawn using:

a. Angles

☐

b. Curve

☐

c. Lines

☐

d. Values

☐

3. A half moon design is created using:

a. Triangle

☐

b. Circle

☐

c. Arc

☐

d. Square

☐

4. Octal number system uses digits from:

a. 0–9

☐

b. 0–7

☐

c. 0–1

☐

d. 0–F

☐

B. Fill in the blanks using the hints given below:

1. Turning Turtle right by 180° makes it face direction.

2. A circle is drawn as a closed

3. Values are given through blocks.

4. Conversion blocks are used for changing

5. Hexadecimal uses digits and letters

C. Answer the following questions:

1. What is the base of decimal system?

.....

2. What is Turtle used for??

.....

3. Which block converts floating number to integer?

.....

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

ANGLES AND VALUE CONVERSION

A. Write 'T' for true and 'F' for false.

1. Conversion block can change decimal to binary.
2. String inputs can be converted into numbers.
3. AI Connect has no available blocks.
4. A floating number cannot be converted to an integer.
5. Output blocks are used to show results.

B. Match the following:

- | | |
|--------------------------|-------------------------------|
| 1. Available Blocks | a. Creates arcs of a circle |
| 2. Turning Turtle | b. Input, Output, Conversion |
| 3. Draw a Triangle | c. Needs 3 sides |
| 4. Draw a Square | d. Needs 4 equal sides |
| 5. Designing a Half Moon | e. Left or Right using angles |

C. Answer the following questions:

1. Explain conversion of string input to a number.

.....

2. Explain conversion of floating number to integer.

.....

3. How to convert decimal to hexadecimal?

.....

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

Chapter-11

CLASS 5

MATH OPERATORS AND LOOPS

A. Tick (✓) the correct option.

- Which loop should you use to keep a clock running continuously?

a. Repeat Loop	☐	b. Forever Loop	☐
c. Output Block	☐	d. Input Block	☐
- Which operator combination would evaluate $(8 \times 3) + (50 \div 5)$?

a. $\times$ and $\div$	☐	b. $+$ and $-$	☐
c. $\times$ and $+$	☐	d. $\div$ and $-$	☐
- Which operator should be used to calculate average = $(\text{sum} \div \text{count})$?

a. $\div$	☐	b. $\times$	☐
c. $\%$	☐	d. $-$	☐
- Which loop is most efficient for printing a multiplication table?

a. Input Block	☐	b. Forever Loop	☐
c. Repeat Loop	☐	d. Conversion Block	☐

B. Fill in the blanks using the hints given below:

- The expression $(4 + 6) \times (5 + 8)$ evaluates to
- Loops are used to instructions.
- In the multiplication table of 7, the 7th multiple is
- In AI Connect, blocks are used to perform arithmetic operations.

C. Answer the following questions:

- Why are loops important?
.....
- Which operator is used to find quotient?
.....
- What is the result of $15 \% 4$?
.....

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

MATH OPERATORS AND LOOPS

A. Write 'T' for true and 'F' for false.

1. The subtraction operator is represented by –
2. The program to evaluate $(4 + 6) \times (5 + 8)$ gives the result 130.
3. The program to evaluate $10 + 45$ gives the result 55.
4. Subtraction operator is written as $\div$.
5. Repeat Loop runs instructions endlessly

B. Match the following:

- | | |
|-----------------------|---|
| 1. Repeat Loop | a. Keeps running endlessly |
| 2. Forever Loop | b. Decreases value by 1 |
| 3. Increment Operator | c. Increases value by 1 |
| 4. Decrement Operator | d. Runs fixed number of times |
| 5. Table of 7 Program | e. Prints 7×1 to 7×10 |

C. Answer the following questions:

1. What is the role of multiplication and division operators?

.....

2. Explain increment and decrement operators.

.....

3. Explain increment and decrement operators.

.....

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

Chapter-12

CLASS 5

AI IN REAL WORLD

A. Tick (✓) the correct option.

1. Which of these is an application of AI?

a. Self-driving car

☐

b. Blackboard

☐

c. Bicycle

☐

d. Knife

☐

2. Bird detection AI uses:

a. Cameras and sensors

☐

b. Shoes

☐

c. Chalk

☐

d. Paints

☐

3. Robots cannot work without:

a. Programming

☐

b. Emotions

☐

c. Air

☐

d. Water

☐

4. Programming robots means:

a. Giving them instructions

☐

b. Teaching them to feel

☐

c. Making them dream

☐

d. Feeding them

☐

B. Fill in the blanks using the hints given below:

1. A cleaner robot is used at home.

2. Bird detection AI is used in research.

3. Male and female detection is part of recognition.

4. Robots are used in industries to assemble cars.

C. Answer the following questions:

1. Give one use of bird detection.

.....

2. What makes robots different from humans?

.....

3. Name one industry where robots are used.

.....

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

AI IN REAL WORLD

A. Write 'T' for true and 'F' for false.

1. Male and female detection is based on face recognition.
2. Robots can work continuously without rest.
3. Programming provides instructions to robots.
4. Bird detection AI uses cameras and AI.
5. Robots grow like living beings.

B. Match the following:

- | | |
|------------------------|-------------------------------------|
| 1. Industrial Robots | a. Used in factories for assembling |
| 2. Security Systems | b. Use gender detection AI |
| 3. Domestic Robots | c. Help with cleaning at home |
| 4. Cameras and Sensors | d. Tools for bird detection |

C. Answer the following questions:

1. How are robots used in everyday life?

.....

2. How do robots save time in industries?

.....

3. How do robots improve industrial work?

.....