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Class: _____ Section: _____ Date: _____

SAFEGUARDING YOUR COMPUTER

A. Write about the following malwares:

1. ILOVEYOU Virus

.....

2. Zeus

.....

3. Pegasus

.....

4. Wabbit Virus

.....

B. Match the following:



a. Norton



b. McAfee



c. AVG

C. Answer the following:

1. Write any two symptoms of an infected computer.

.....

.....

2. Write a short note on Antivirus. Name few of them.

.....

.....

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FORMULAS AND FUNCTIONS IN EXCEL

A. Read the clues and answer the following:

1. It is a group of selected cells.

.....

2. It is formed by the intersection of a row and a column.

.....

3. The address of the active cell is displayed in this box.

.....

4. This command is used to merge the selected cells in Excel.

.....

5. This command is used to apply the style on a cell.

.....

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

1. Functions are predefined formulas in Excel to perform both simple and complex calculations.

2. Excel is an application software to store and analyse numerical data.

3. Row height and column width cannot be changed.

4. You can only use absolute references in Excel.

C. Write the steps to use the logical functions in Excel.

Step 1

Step 2

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MORE ON EXCEL

A. Tick (✓) the correct option.

1. What does the Chart Title do?

a. Represents X-axis values <input type="checkbox"/>	b. Describes chart's main aim <input type="checkbox"/>
c. Shows legend meanings <input type="checkbox"/>	d. Includes data values <input type="checkbox"/>
2. What does the Legend indicate?

a. Bounded area between axes <input type="checkbox"/>	b. Divided circular chart <input type="checkbox"/>
c. Key for symbols/colors <input type="checkbox"/>	d. Area with all chart elements <input type="checkbox"/>
3. What is the role of Data Series in a chart?

a. Includes legend keys <input type="checkbox"/>	b. Represents pie chart sectors <input type="checkbox"/>
c. Set of values with bars/slices <input type="checkbox"/>	d. Connects dots to show trends <input type="checkbox"/>
4. What is the purpose of Gridlines in a chart?

a. Create circular chart <input type="checkbox"/>	b. Explain legend meanings <input type="checkbox"/>
c. Ease reading and understanding <input type="checkbox"/>	d. Describe chart's main aim <input type="checkbox"/>

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

1. A chart is an effective way to display data in a pictorial form.
2. Chart makes it difficult to draw comparisons and analyse the growth, relationships, and trends among the values in a table.
3. X-axis is also called the category axis.
4. Pie charts are based on the features of the line chart.

C. Write the steps to sort the data in Excel.

- Step 1
- Step 2
- Step 3
- Step 4

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ADVANCED FEATURES OF POWERPOINT 2016

A. Tick (✓) the correct option.

- Which view in PowerPoint shows all the slides of a presentation in a miniature version and allows you to change their order?

a. Slide Sorter View	<input type="checkbox"/>	b. Normal View	<input type="checkbox"/>
c. Notes Page View	<input type="checkbox"/>	d. Reading View	<input type="checkbox"/>
- in PowerPoint is used to create the default layout and appearance of the slides in the presentation.

a. Theme	<input type="checkbox"/>	b. Slide Master	<input type="checkbox"/>
c. Design	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Which of the following option is used to change the background of a theme?

a. Color	<input type="checkbox"/>	b. Background Styles	<input type="checkbox"/>
c. Background	<input type="checkbox"/>	d. Wallpaper	<input type="checkbox"/>

B. Fill in the blanks.

- PowerPoint's view shows a large view of the current slide, along with the outline and Notes pane.
- The view allows you to see a miniature version of all the slides and reorder them.
- To add animation effects to text or objects in PowerPoint, you use the tab.

C. Answer the following questions:

- What do you mean by Slide Transition? Write the steps to add transition to the slide.
.....
- Write three things which you should keep in mind while enhancing the look of a presentation.
.....
- When should Reading View be used in a Presentation?
.....

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ALGORITHMIC INTELLIGENCE

A. Read the clues and answers the following:

1. It is set of steps in a sequential manner to solve a problem or to complete a task.
2. It is used to show the start and stop points of the flowchart.
3. It indicates a question or branch in the process flow. It is used when there are 2 options (Yes/No).
4. It shows the direction in which the process flows.

B. Write 'T' for true and 'F' for false. Correct and rewrite the false statements.

1. Algorithm facilitates a programmer to analyse the problem in detail.
.....
2. Decision symbol is used to start and stop the flowchart.
.....
3. The flowchart should be dirty, unclear and hard to follow.
.....
4. Once a flowchart is drawn, it becomes hard to write the program in any high-level language.
.....

C. Write the use of any three symbols in flowcharts.

1.
2.
3.

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USING MAKECODE ARCADE

A. Tick (✓) the correct option.

- Which of these is a visual programming language for games?

a. Python	<input type="checkbox"/>	b. Scratch	<input type="checkbox"/>
c. MakeCode Arcade	<input type="checkbox"/>	d. C++	<input type="checkbox"/>
- Where are the code blocks placed in MakeCode Arcade?

a. Toolbox	<input type="checkbox"/>	b. Programming Workspace	<input type="checkbox"/>
c. Simulator	<input type="checkbox"/>	d. Controls	<input type="checkbox"/>
- What allows you to draw custom sprites in MakeCode?

a. Gallery	<input type="checkbox"/>	b. Image editor	<input type="checkbox"/>
c. Blocks	<input type="checkbox"/>	d. Assets	<input type="checkbox"/>
- How can you add background images in MakeCode Arcade?

a. Scene blocks	<input type="checkbox"/>	b. Loop blocks	<input type="checkbox"/>
c. Sprite blocks	<input type="checkbox"/>	d. Math blocks	<input type="checkbox"/>

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

- The block toolbox contains code blocks in MakeCode Arcade.
- The simulator allows testing and debugging games.
- Controller blocks set background colors and dimensions.
- Music blocks add conditional logic to games.
- The programming workspace is where you assemble code blocks.

C. Answer the following questions:

- What are the key sections of the MakeCode Arcade interface?
.....
- What do scene blocks allow you to do?
.....

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INTRODUCTION TO PYTHON

A. Match the following:

- | | |
|---------------------|---|
| 1. Python | a. Store values that can be accessed or changed later |
| 2. Interactive Mode | b. Saves commands entered as a program |
| 3. Script Mode | c. Dynamically typed language |
| 4. IDLE | d. Used to execute commands one at a time |
| 5. Variables | e. Integrated Development and Learning Environment |

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

Hints: int(), float(), input(), print()

- The function is used to convert a string input into an integer in Python.
- The function is used to take input from the user during the execution of a Python program.
- The function is used to print the output to the screen in Python.
- The function is used to convert a string input into a floating-point number.

C. Answer the following questions:

- Explain the difference between the float() function and the int() function.

.....

- What is the role of variables in Python programming?

.....

- How do you declare and initialize a variable in Python?

.....

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HUMAN VS MACHINE INTELLIGENCE

A. Tick (✓) the correct option.

- Which is an example of interpersonal intelligence in humans?

a. Mathematical skill	<input type="checkbox"/>	b. Musical talent	<input type="checkbox"/>
c. Navigation ability	<input type="checkbox"/>	d. Social skills	<input type="checkbox"/>
- What percentage of blood flow is received by the human brain?

a. 10%	<input type="checkbox"/>	b. 15%	<input type="checkbox"/>
c. 20%	<input type="checkbox"/>	d. 30%	<input type="checkbox"/>
- Which activity mainly involves the human brain?

a. Walking	<input type="checkbox"/>	b. Breathing	<input type="checkbox"/>
c. Playing football	<input type="checkbox"/>	d. Thinking critically	<input type="checkbox"/>
- Which statement compares machine and human intelligence?

a. Machines have better social skills	<input type="checkbox"/>	b. Machines are created by humans	<input type="checkbox"/>
c. Humans adapt better to change	<input type="checkbox"/>	d. Humans excel in accuracy	<input type="checkbox"/>
- What enables machines to learn from data?

a. Reinforcement learning	<input type="checkbox"/>	b. Supervised learning	<input type="checkbox"/>
c. Unsupervised learning	<input type="checkbox"/>	d. All of the above	<input type="checkbox"/>

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

- Musical skill is a form of intelligence.
- Machines have self-awareness like humans.
- AI aims to develop smart algorithms.
- Human intelligence comes from nature.
- Machines adapt faster to new situations than humans.

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AI TECHNOLOGIES

A. Tick (✓) the correct option.

1. What does AI stand for?

a. Artificial Interface <input type="checkbox"/>	b. Automated Intelligence <input type="checkbox"/>
c. Artificial Intelligence <input type="checkbox"/>	d. Advanced Internet <input type="checkbox"/>
2. Which step follows after converting the image into data in face recognition?

a. Match data with database <input type="checkbox"/>	b. Displaying the image <input type="checkbox"/>
c. Analyzing the face <input type="checkbox"/>	d. Detecting another face <input type="checkbox"/>
3. What is the first step in an OCR program?

a. OCR processes the characters and converts them into computerised files. <input type="checkbox"/>	
b. The paper document is read by a scanner and converted into a machine-readable form. <input type="checkbox"/>	
c. Letters, numbers, and symbols are examined by OCR. <input type="checkbox"/>	
d. AI ensures documents are converted with the greatest possible accuracy. <input type="checkbox"/>	

B. Fill in the blanks.

1. is a technique used to convert a paper document into an editable form.
2. A paper document is read by a scanner and converted into a form.
3. can be used in surveillance cameras to identify people.

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

1. Face recognition technology detects a face, reads its geometry, converts it into data, and matches it with the existing database.
2. OCR technology identifies letters, numbers, and symbols by analyzing only lowercase letters.
3. Robots can only perform simple tasks like turning on a light or pressing a button.

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TYPES OF ROBOTS

A. Answer the following questions in one or two words.

1. Name the robot created by Sony in 1999.
2. Which rover was sent by NASA to study the planet Mars?
3. Which robots are used for manufacturing purposes?
4. Knightscope is an example of which type of robot?

B. Match the following:

- | | |
|---------------------------------|-----------------------------------|
| 1. A-PUFFER | a. Service robots |
| 2. Kitchen robots | b. Space exploration and research |
| 3. Aibo | c. Robots in medicine |
| 4. Irrigation and fertilization | d. Toy robot |
| 5. Surgical robots | e. Robots in agriculture industry |

C. Long answer type questions.

1. Write a short note on security robots.
.....
2. Explain the different applications of robots in the field of agriculture industry.
.....
3. How robots are used in space exploration and research?
.....
4. What are the applications of humanoid? Explain in detail.
.....
5. Explain the various types of robots.
.....