Name: _____

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FORMULAS & FUNCTIONS IN EXCEL

A. Read the clues and answer the following:

1. It is a collection of different worksheets.

   ....

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. Word is an application software to store and analyse numerical data.   ....

3. Row height and column width cannot be changed.   ....

4. We cannot format numbers in a cell.   ....

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

Step 1 ....

Step 2 ....

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ORANGE

WORKSHEET

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Chapter-3

CLASS 6

Name: _____

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CHARTS IN EXCEL

A. Tick (✓) the correct option.

1. What does the Chart Title do?

   a. Represents X-axis values ☐   b. Describes chart's main aim ☐

   c. Shows legend meanings ☐   d. Includes data values ☐

2. What does the Legend indicate?

   a. Bounded area between axes ☐   b. Divided circular chart ☐

   c. Key for symbols/colors ☐   d. Area with all chart elements ☐

3. What is the role of Data Series in a chart?

   a. Includes legend keys ☐   b. Represents pie chart sectors ☐

   c. Set of values with bars/slices ☐   d. Connects dots to show trends ☐

4. What is the purpose of Gridlines in a chart?

   a. Create circular chart ☐   b. Explain legend meanings ☐

   c. Ease reading and understanding ☐   d. Describe chart's main aim ☐

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 create a chart in Excel.

Step 1 ....

Step 2 ....

Step 3 ....

Step 4 ....

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Chapter-4

CLASS 6

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ADVANCED FEATURES OF POWERPOINT 2016

A. **Tick (✓) the correct option.**

1. Which of the following is not an alignment in PowerPoint?
   a. Right ☐
   b. Justify ☐
   c. Justify Centre ☐
   d. Left ☐

2. .... in PowerPoint is used to create the default layout and appearance of the slides in the presentation.
   a. Theme ☐
   b. Slide Master ☐
   c. Design ☐
   d. None of these ☐

3. Which of the following option is used to change the background of a theme?
   a. Color ☐
   b. Background Styles ☐
   c. Background ☐
   d. Wallpaper ☐

B. **Write the names of following Action buttons:**

1. ☐ ☐ ☐ ⬠ ....

2. ⇨ ⇦ ⇧ ⇩ ....

3. 🗨 🗨 💬 💭 ....

4. ◁ ▷ ◁| |▷ ....

C. **Answer the following questions:**

1. What do you mean by Slide Transition? Write the steps to add transition to the slide.
   ....

2. Write three things which you should keep in mind while enhancing the look of a presentation.
   ....

3. When should Reading View be used in a Presentation?
   ....

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ALGORITHM AND PSEUDOCODE

A. Give one word for the following:

1. What term describes the symbol used to represent the start or end of a process in a flowchart?

    ....

2. What word represents the symbol used to depict a decision or branching point in a flowchart?

    ....

3. Which term for the symbol used to represent a process or action in a flowchart?

    ....

4. What term represents the symbol used to depict input or output operations in a flowchart?

    ....

5. What term represents the symbol used to depict a loop or repetition in a flowchart?

    ....

B. Create the flowchart for the given algorithm.

Start

Input length (L)

Input width (W)

Area= L * W

Print ('The area of the rectangle is:', Area)

End

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Chapter-6

CLASS 6

Name: _____

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USING MAKECODE ARCADE

A.   Tick (✓) the correct option.

1.   Which of these is a visual programming language for games?
   a. Python ☐
   b. Scratch ☐
   c. MakeCode Arcade ☐
   d. C++ ☐

2.   Where are the code blocks placed in MakeCode Arcade?
   a. Toolbox ☐
   b. Workspace ☐
   c. Simulator ☐
   d. Controls ☐

3.   What allows you to draw custom sprites in MakeCode?
   a. Gallery ☐
   b. Image editor ☐
   c. Blocks ☐
   d. Assets ☐

4.   How can you add background images in MakeCode Arcade?
   a. Scene blocks ☐
   b. Loop blocks ☐
   c. Sprite blocks ☐
   d. Math blocks ☐

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

1.   The toolbox contains code blocks in MakeCode Arcade. ....

2.   The simulator allows testing and debugging games. ....

3.   Controller blocks set background colors and dimensions. ....

4.   Music blocks add conditional logic to games. ....

5.   The workspace is where you assemble code blocks. ....

C.   Answer the following questions:

1.   What are the key sections of the MakeCode Arcade interface?

   ....

2.   What do scene blocks allow you to do?

   ....

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Chapter-8

CLASS 6

TYPES OF ROBOTS

A. Tick (✓) the correct option.

1. What category do the blocks for creating variables belong to in AI Connect?

   a. List category ☐

   c. Variables category ☐

   c. Matplot sub-category ☐

   d. Math category ☐

2. How do you add data values to a variable in AI Connect according to the image?

   a. dragging the "+" block and entering the values ☐

   b. By selecting the variable and typing the values directly ☐

   c. By dragging the "create list of" block and entering the values inside it ☐

   d. None of these ☐

B. Identify the Errors and correct them.

1. Artificial Intelligence aims to decrease human functions.

   ....

2. The Get nose count block is used to detect a person's hair.

   ....

3. The Load Image block is used to load videos in AI Connect.

   ....

4. The if-do Block is used for sequential programming.

   ....

C. Answers the following questions.

1. Describe the functionality of the if-do block from the Logic category in AI Connect.

   ....

2. Explain the purpose of print in AI Connect.

   ....

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Chapter-9

CLASS 6

EXPLORING MATHS WITH CODING

A. Fill in the blanks.

1. Mathematics helps improve Artificial Intelligence to achieve human level of .... creativity and innovation.

2. Common applications of Math in AI includes linear algebra, probability, multivariate calculus, ... and few other topics.

3. In AI Connect, to calculate the area of a rectangle, users need to create a project and a Basic Coding activity, then execute the ....

4. Clicking the .... button after completing the coding in AI Connect will display the calculated area of the rectangle.

5. .... is used to explain the order of operation of mathematical expression.

B. Match the following blocks with their categories:

Block		Category	
1.	Set a variable to	a.	Data type
2.	Int	b.	Math category
3.	Print	c.	Input category
4.	Input with prompt	d.	Output category

C. Answers the following questions.

1. Explain the concept of BODMAS.

   ....

   ....

2. How does AI Connect help in solving mathematical problems?

   ....

   ....

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WORSHEET

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Chapter-10

PLOTTING GRAPHS

A. **Fill in the blanks.**
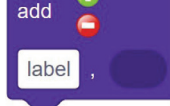
1. Line charts are used to display trends over ....

2. The purpose of a graph is to present information in a simplified .... manner.

3. Graphs are also known as ....

4. Bar charts can be either .... or horizontal.

B. **Arrange the following blocks in the sequence in which they are used to create a bar chart in AI Connect:**

1. `Render Chart`

2. `Bar Chart`

3. `Title Chart`

4. `add label ,`

....

C. **Short Answer Questions:**

1. Define Graph.

....

....

2. Mention the two sub-categories of graph plot category.

....

....