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Chapter-1

CLASS 6

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 & 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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Chapter-3

CLASS 6

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

ADVANCED FEATURES OF POWERPOINT 2016

A. Tick (✓) the correct option.





- Which of the following is not an alignment in PowerPoint?

a. Right	<input type="checkbox"/>	b. Justify	<input type="checkbox"/>
c. Justify Centre	<input type="checkbox"/>	d. Left	<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. Write the names of following Action buttons:

-    
-    
-    
-    

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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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

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-7

CLASS 6

MORE ON MAKECODE ARCADE

A. Tick (✓) the correct option.

- What is the process of assigning a value to a variable called?

a. Declaration	<input type="checkbox"/>	b. Identification	<input type="checkbox"/>
c. Initialisation	<input type="checkbox"/>	d. Execution	<input type="checkbox"/>
- Which of the following is used to increase or decrease the value of a variable in MakeCode Arcade?

a. set to	<input type="checkbox"/>	b. add to	<input type="checkbox"/>
c. splash	<input type="checkbox"/>	d. change by	<input type="checkbox"/>
- Which block in the Logic category is used to show a different output if a condition is false?

a. if-then	<input type="checkbox"/>	b. logical not	<input type="checkbox"/>
c. if-then-else	<input type="checkbox"/>	d. equal	<input type="checkbox"/>
- What does the comparison block do?

a. Starts a loop	<input type="checkbox"/>	b. Ends a loop	<input type="checkbox"/>
c. Skips to next iteration	<input type="checkbox"/>	d. Restarts a loop	<input type="checkbox"/>

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

- Variable names can contain spaces.
- Initialization assigns an initial value to a variable.
- A variable can store more than one value at a time.
- The logical not block returns true if the condition is false.

C. Answer the following questions:

- What does conditional blocks do?
.....
- What is the use of absolute of block?
.....

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Chapter-8

CLASS 6

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.
.....

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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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Chapter-10

CLASS 6

PLOTTING GRAPHS

A. Fill in the blanks.

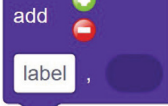
1. Line charts are used to display trends over
2. The purpose of a graph is to present information in a simplified manner.
3. Graphs are also known as
4. Bar charts can be either or horizontal.

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

1. 

2. 

3. 

4. 

.....

C. Short Answer Questions:

1. Define Graph.

.....
.....

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

.....
.....

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Chapter-11

CLASS 6

AI IN REAL WORLD

A. Tick (✓) the correct option.

1. AI is mainly used in this chapter for:

a. Weather forecasting

☐

b. Facial detection

☐

c. Plant growth

☐

d. Music creation

☐

2. Which AI application was used widely during the COVID-19 pandemic?

a. Translation tools

☐

b. Face mask detection

☐

c. Online shopping

☐

d. Video editing

☐

3. Facial detection technology in AI is used to identify:

a. Houses

☐

b. Human faces

☐

c. Cars

☐

d. Roads

☐

4. AI systems detect if a person is wearing:

a. Shoes

☐

b. Masks

☐

c. Gloves

☐

d. Cap

☐

5. AI and Facial Detection helps in:

a. Recognizing animals

☐

b. Recognizing human faces

☐

c. Writing books

☐

d. Building houses

☐

B. Fill in the blanks.

1. AI is used in this chapter mainly for detection.

2. AI systems can recognize if a person is wearing a

3. Face mask detection became important during the pandemic.

4. Detecting a human face is an application of learning.

5. In AI Connect, mask detection is demonstrated.

6. Face mask detection was used to ensure public

Grade:



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