Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

FUNDAMENTALS OF COMPUTER

Chapter-1

A. **Guess, who am I?**

1. I helps you select, click, and move things around on the screen. ....

2. I'm a type of software that helps you manage and take care of your computer. ....

3. I allows users to input voice or other sounds into the computer. ....

B. **Correct the following statements:**

1. The Recycle Bin is used to permanently delete files from the system.

   ....

2. RAM stores data even when the computer is turned off.

   ....

C. **Write steps for the following:**

1. Restoring a file/folder.

   ....

   ....

   ....

   ....

2. Permanently deleting a file/folder.

   ....

   ....

   ....

   ....

Grade: ☆ ☆ ☆ ☆ ☆   **Teacher's Signature:** _____

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

Chapter-1

CLASS 6

FUNDAMENTALS OF COMPUTER

A. Unscramble the following and write their correct form:

1. C P K E S R A E

2. K I S D   U P E A N L C

3. K S I R T E A S

B. Rewrite the jumbled sentences.

1. storage / secondary / are / HDD and SSD / examples / of

   ....

2. device / mouse / pointing / is / a

   ....

C. Solve the following crossword using the clues:

Across

2. The electronic or physical storage of data in a computer

3. Programs and applications that run on a computer

6. A device that computers sound and converts if into digital signals

7. The result generated by a computer after processing data

8. A screen used to display images, videos or data from a computer

Down

1. The process of organising fragmented data on a hard drive

4. The physical components of a computer you can touch

5. The act of providing data to a computer using devices like keyboards

Grade: ☆ ☆ ☆ ☆ ☆

Teacher's Signature: _____

ORANGE

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

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Chapter-2

CLASS 6

ALGORITHM AND FLOWCHART

A. **Can a flowchart be used in real life scenarios like cooking or cleaning? Explain how.**

....

....

....

....

B. **Draw a flowchart to input 2 numbers and print the larger one.**

C. **Fill in the blanks.**

1. .... is the simplest form of an algorithm.

2. The symbol for decision making in a flowchart is a ....

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

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ALGORITHM AND FLOWCHART

Chapter-2

CLASS 6

A. Write a short dialogue between a teacher and a student where the teacher is explaining the importance of algorithms in solving problems. Begin the dialogue as shown below:

Teacher: Have you ever followed a recipe while cooking or instructions to build something?

Student: Yes, I usually follow steps when I'm baking a cake or setting up a game.

....

....

....

....

B. Riya wants to create a flowchart to automate her daily routine before school, including brushing her teeth, getting dressed, eating breakfast, and checking her bag.

Help Riya design a flowchart to represent her morning routine. Identify at least 3 steps and use correct flowchart symbols.

C. Unscramble the following words:

1. R T I T I O N E P E

2. S R L E U

Grade: ☆ ☆ ☆ ☆ ☆

Teacher's Signature: _____

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WORKSHEET ①

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

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Chapter-3

CLASS 6

LEARNING SCRATCH

A. Correct the following statements:

1. Sprites cannot move in Scratch.

    ....

2. The green flag in Scratch is used to stop the program.

    ....

3. In Scratch, the control blocks are used to design costumes for sprites.

    ....

B. Write the uses of the following blocks:

1. pen down   ....

2. wait until   ....

3. round   ....

4. broadcast message1 ▾ and wait   ....

C. Write the script for the given output:

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Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

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LEARNING SCRATCH

Chapter-3

CLASS 6

A.   Write the steps for the following:

1.   Painting a New Sprite

....

....

2.   Changing Costume of a Sprite

....

....

B.   Name the components labelled in the following diagram:

C.   Mukul wants to create a project in Scratch to make a sprite move in a zigzag pattern. Help him by writing the names of the blocks required for this.

Grade: ☆ ☆ ☆ ☆ ☆   Teacher's Signature: _____

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Name: _____
Roll No: _____
Class: _____ Section: _____ Date: _____

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CYBER SECURITY

Chapter-4

CLASS 6

A. Find the following words in the puzzle.

CYBERCRIME PHISHING HACKER ENCRYPTION
SOFTWARE TROJAN NETIQUETTE SECURITY
VIRUS ANTIVIRUS USERNAME DATA
FIREWALL MALWARE SPAM PASSWORD
PRIVACY SCAM INTERNET NETWORK

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

B. Why should you avoid sharing passwords? Give 2 valid reasons.

....

....

C. Guess, Who am I?

1. I am a harmful program. I might look friendly, but I damage your files silently. ....
2. I connect computers in a small building. I am faster and private. ....

Grade: ☆ ☆ ☆ ☆ ☆   Teacher's Signature: _____

WORKSHEET ②

Name: _____

Roll No: _____

Class: _____ Section: _____ Date: _____

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Chapter-4

CLASS 6

CYBER SECURITY

A. Correct the following statements:

1. Firewall allows every data to pass freely through the network.

    ....

2. LAN is slower than WAN and is used for global connectivity.

    ....

B. Ananya noticed that her friend was misusing the school group chat by sharing fake links and spamming messages. She decided to explain the importance of following netiquettes while using the internet.

   Imagine you are Ananya. What would you tell your friend about the role of netiquettes?

   ....

   ....

   ....

   ....

C. Unscramble the following words:

1. R I T W O L F A L

2. M W A A L R E

3. C N Y I R E P T H O N

4. T P I R V Y C A

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