Information and Communication Technology (ICT)

Workbook

6th Standard — Level-I

ರಾಷ್ಟ್ರಗೀತೆ

ಜನಗಣ ಮನ ಅಧಿನಾಯಕ ಜಯ ಹೇ ।
ಭಾರತ ಭಾಗ್ಯ ವಿಧಾತಾ ॥
ಪಂಜಾಬ ಸಿಂಧು ಗುಜರಾತ ಮರಾಠಾ ।
ದ್ರಾವಿಡ ಉತ್ಕಲ ವಂಗಾ ॥
ವಿಂಧ್ಯ ಹಿಮಾಚಲ ಯಮುನಾ ಗಂಗಾ ।
ಉಚ್ಛಲ ಜಲಧಿ ತರಂಗಾ ॥
ತವ ಶುಭ ನಾಮೇ ಜಾಗೇ ।
ತವ ಶುಭ ಆಶಿಷ ಮಾಗೇ ॥
ಗಾಹೇ ತವ ಜಯ ಗಾಥಾ ।
ಜನಗಣ ಮಂಗಳದಾಯಕ ಜಯ ಹೇ ॥
ಭಾರತ ಭಾಗ್ಯ ವಿಧಾತಾ ।
ಜಯ ಹೇ ಜಯ ಹೇ ಜಯ ಹೇ ॥
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– ರವೀಂದ್ರನಾಥ ಟಾಗೋರ್

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1. **Title of the Book**   : 6th Standard, ICT- Workbook

2. **Publisher and**   : **Sri. M.R.Hiremath** K.A.S
    Copy Right Holder   **Executive Director,**
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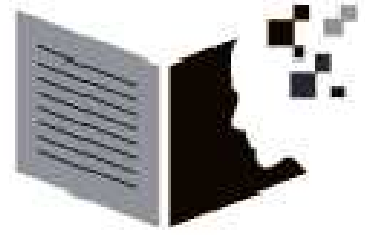# INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

Workbook

6

SIXTH STANDARD

LEVEL I

CONTENTS

Chapter 1

Introduction to Computer

Worksheets

I. Identify which are the parts of the computer and mark them.

Pen	Keyboard	Book	Printer
Hat	Cap	Mouse	Glass
CPU	Speaker	Table	DVD

II. Find out some places where computers are used!!!

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

1. SCHOOL
2. HOSPITAL
3. RAILWAY
4. BANK

5. OFFICE
6. AIRPORT
7. SHOP
8. LIBRARY

III. State the following statements -True (✓) or False (✗):

1. The computer is an electronic device.   [   ]

2. The computer works slowly.   [   ]

3. The computer cannot count numbers.   [   ]

4. Computers are used in schools.   [   ]

5. Computer cannot work accurately   [   ]

IV. Write the missing letters in the word given below:

1. M ___ U S ___   4. ___ P ___A K E ___

2. C ___ U   5. K ___Y B ___A ___ D

3. M ___N I ___ ___ R   6. P ___ I N ___ E ___

V. Write the correct words for the following:

1. Machines require _____ to work

T	R	I	E	C	L	E	T	Y	C	I

2. _____ works very fast.

P	O	C	M	U	T	R	E

3. Computer makes our work _____

A	S	E	Y

4. _____ is an input device.

O	S	E	M	U

5. A group of 8 bits is called _____.

B	T	E	Y

VI. Answer the following questions in one or two sentences each:

1. Define Computer.

    _____

    _____

    _____

2. List out the characteristics of the computer.

    _____

    _____

    _____

3. Explain CPU.

    _____

    _____

    _____

4. What are the applications of the computer?

    _____

    _____

    _____

5. Write a note on Monitor.

    _____

    _____
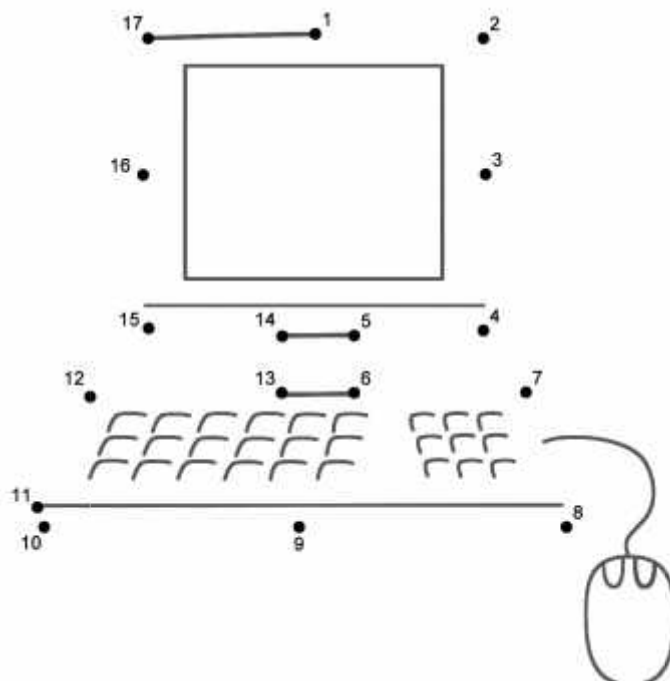
    _____

A C T I V I T Y

1. Collect the pictures of any five machines from the newspaper. Make a poster and write their names below.

2. Conduct survey on the different uses of computer in their surrounding.

3. Color the figure of MOUSE.

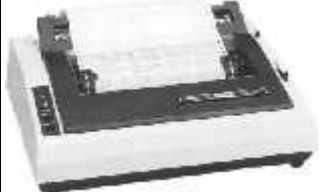4. Connect the dots to complete the diagram and label the parts.

Chapter 2

Components to Computer

Worksheets

I. Match the Following:

Sl No	Picture	Device
1.		OMR
2.		Printer
3.		Touch Screen
4.		Track Ball
5.		Scanner

II. Identify the following and the label the device:

_____   _____

_____   _____

_____   _____

III. Identify the input and output devices:

Input/ output Device	Input/ output Device
Input/ output Device	Input/ output Device

IV. Answer the following in one or two sentences:

1. What is an Input device?

   _____

   _____

   _____

2. Give two examples for output devices.

   _____

   _____

3. What is a Light Pen?

   _____

   _____

4. What is processing?

   _____

   _____

5. Name the two types of Printers.

   _____

   _____

6. Why do we use speaker in computer?

   _____

   _____

V. Answer the following in three or four sentences:

1. Draw a neat diagram of IPO Cycle.

2. List the types of computer. Explain any one.

_____

_____

_____

_____

_____

_____

A C T I V I T Y

1. Collect the pictures of Input Devices.

2. Prepare a chart of Input and Output devices.

3. Make a list of activities in our daily lives that are similar to IPO cycle.

4. **Group Activity**: Student act as Input, processing and Output Devices which performs a simple task.

Chapter 3

Do's & Don'ts with Computer

Worksheets

I. Indicate the following statements Good (✓) or Bad (✗) habits:

1. Playing music very loudly.   [   ]

2. Hitting keys on the keyboard very hard.   [   ]

3. Eating or drinking near the computer.   [   ]

4. Keeping the computer clean.   [   ]

5. Sharing a computer with your friend.   [   ]

6. Removing or disconnecting wires from their slot.   [   ]

7. Sitting at a proper distance from the Monitor.   [   ]

II. Rearrange by numbering the steps in the correct order:

1. Press the **P**ower Switch on   [   ]

2. Switch on **M**onitor   [   ]

3. **C**lick on Start Button   [   ]

4. Swi**t**ch off Monitor   [   ]

5. Switch on CP**U** power button   [   ]

6. Power Switch **O**ff.   [   ]

7. Shut down compute**r**   [   ]

8. Us**e** the computer   [   ]

Find out which word is formed by combining all the letters underlined.

III. Identify and Reorder the words in the following:

1	R O N M I T O	
2	T O B O N I G	
3	T U O N S D H W	
4	W I N S C T O H	
5	B R E A K Y O D	

IV. Answer the following in one or two sentences:

1. List the good habits while using computer.

    _____

    _____

2. What happens when food or drink fall on computer?

    _____

    _____

3. Write the steps to switch on the computer.

    _____

    _____

4. Write the steps to shut down the computer.

_____

_____

A C T I V I T Y

1. **Prepare a Chart**: Prepare a Chart with the do's and dont's and put it up in a computer lab.

2. List the do's and dont's while watching television?

3. List the activities that you do to get ready for the school. Just as you do several things before you start a day at the school, the computer also does several actions before starting.

4. **Group Activity**: List different things that you do when you get ready to leave school. To do this activity, form groups of five students each. Just like you, the computer also does several actions when you shut it down.

<table>
<tr><td>Chapter</td><td>**4**</td><td colspan="2">**Using mouse and Keyboard**</td></tr>
</table>

Worksheets

I.   Match the Following:

1. Left click   -   Moving page up and down   _____

2. Right click   -   To start an activity   _____

3. Scroll button   -   To select an activity   _____

4. Double click   -   Control the activity   _____

II.   Circle the words that are related to the Computer Mouse:

Right click   Pointer

Mice   Left click

Scroll button   Mouse pad

Double click   Hat

III. Classify the following keys into Alphabets, Numbers and Special Keys:

F1   B   ) 0   Backspace ←   C   Caps Lock   K

& 7   Ctrl   S   Esc   @ 2   H   (9   X

Alphabets Keys	
Number Keys	
Special Keys	

A C T I V I T Y

1. Look at the computer mouse in your school and in other places. Do they all look the same?
2. Type the definitions for the following on the computer. (Note: The teachers opens the text editor)
   i.   Computer
   ii.   Input device
   iii. Output Device

<table>
<tr><td>

Chapter

</td><td>

5

</td></tr>
</table>

Paint using a Computer

Worksheets

I. Fill in the blanks with suitable words:

1. _____is a simple graphics painting tool.

2. The _____is the white area in the paint window where you draw pictures.

3. _____ is a strip of buttons and icons located above the drawing area.

4. _____ is located at the top left of the paint window.

5. _____shows all the colors available whenever you are making a picture.

II. State the following statements True (---) or False (✗):
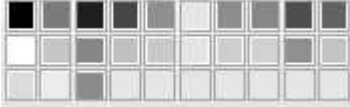
1. The text tool is used to enter text in the picture.   (   )

2. You cannot erase mistakes while drawing in paint.   (   )

3. Fill with color is used to color a picture.   (   )

4. You can use Paint to draw different types of ready-made shapes.   (   )

5. The Magnifier Tool can be used to seeing a picture in closer view. (   )
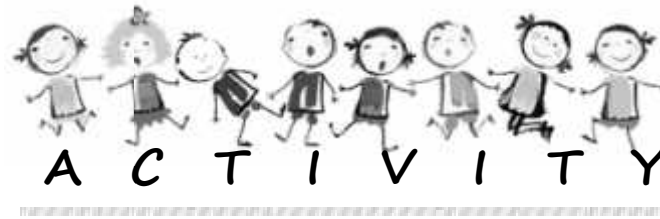
III. Pick the Odd one out:

1. Pencil, Eraser, Brushes, Triangle.

2. Text, Lines, Curve, Rectangle.

3. Save, Size, Open, Exit.

4. Brushes, Color Palette, Shapes, Close.

5. Minimize, Restore, Close, Save.

IV. Match the following:

A	B
	Eraser
	Paint Icon
	Pencil
	Brush
	Shapes
	Fill with Color
	Color Palette
	Curve

A C T I V I T Y

I. Draw the following shapes in paint and color them:

1. Oval
2. Rectangle
3. Rounded Rectangle
4. Triangle
5. Pentagon

II. Draw the following pictures in paint and color them:

1. Trees
2. Flower
3. Boat
4. My school.
5. Computer

III. Create drawings for the following topics:

1. Pond Ecosystem.
2. Cartoon Characters.

IV. Draw the picture of the sun rising over a hilltop using paint tools.

Playing with Paint

Worksheets

I. Fill up the blanks with suitable words:

1. The blank white area where you will draw and color is called _____.

2. Topmost part of Tux paint window is called _____ bar.

3. The _____section has a collection of tools using which you will draw the picture or color the picture.

II. Match the Following:

A	B
Quit	Open an existing page
Save	New blank page
Open	Writes text
New	Closes the activity
Abc Text	Saves the page

III. Answer the following in one or two sentences each:

1. What us this area called?
2. What is this?
3. What is this?
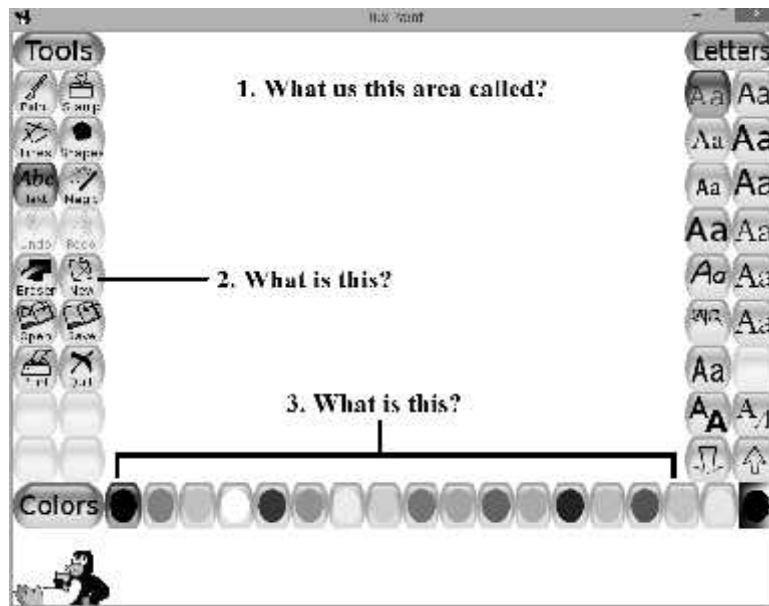
A C T I V I T Y

1. Make a birthday card for your friend using the different tool options. Save the file and quit the activity.

2. Open Tux Paint and color the pictures. Start the activity by clicking on its icon and open the pictures for coloring. Explore the magic tool and color the pictures. Save the file after you complete the task.
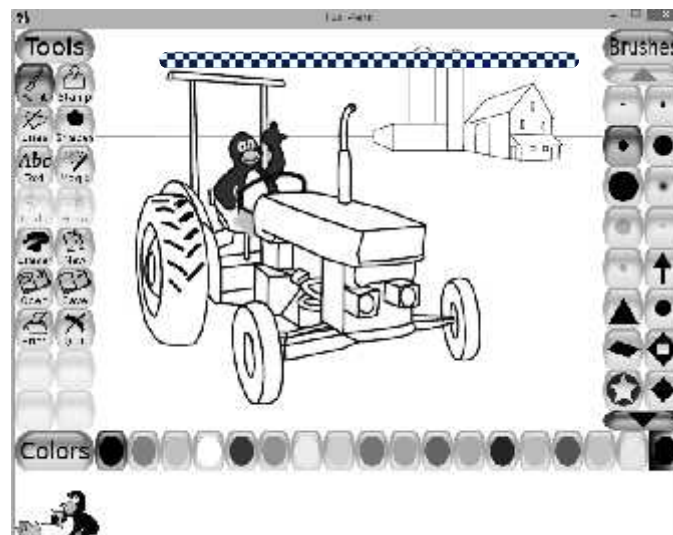
7 Fun with Tux Typing

Chapter

A C T I V I T Y

1. Play **Fish Cascade** with different difficulty levels.

2. Play **Comet Zap** and compare your high score with that of your friends.

3. Complete each of the **Lessons** and record your time, errors and accuracy in a table.

Chapter	**8**	

Number System

Worksheets

I.   Fill in the blanks with suitable words:

1. _____ Number system is used in our day-to-day life.

2. Binary number system uses only _____ and _____.

3. The base of octal number system is _____

4. The digital computer represents data and information in _____

5. In Hexadecimal number system A represents _____

II.   Convert the decimal numbers into binary numbers.

A) 7   _____   C) 128   _____

B) 13   _____   D) 161   _____

III.   Convert the binary numbers into decimal numbers.

A) 11   _____   C) 1111   _____

B) 101   _____   D) 110   _____

IV.   Convert the decimal numbers into octal numbers.

A) 25   _____   C) 134   _____

B) 83   _____   D) 172   _____

V.   Convert the octal numbers into decimal numbers.

A) 45   _____   C) 112   _____

B) 65   _____   D) 172   _____

VI.   Convert the decimal numbers into hexadecimal numbers.

A) 100   _____   C) 540   _____

B) 234   _____   D) 234   _____

VII.   Convert the hexadecimal numbers into decimal numbers.

A) 3D   _____   C) 1BC   _____

B) 59A   _____   D) 32F   _____

VIII.   Convert the following binary to octal and hexadecimal numbers.

A) 10101(2)   _____   C) 11110001101(2)   _____

B) 11011011(2)   _____   D) 10001001011(2)   _____

IX.   Expand the following:

1. ASCII   -   _____

2. EBCDIC   -   _____

3. BCD   -   _____

X.   Answer the following questions in one or two sentences each:

1. What is number system?

_____

_____

_____

2. Write the different types of number System.

_____

_____

_____

3. What is base?

_____

_____

_____

4. Write the numbers used in Hexadecimal number system.

_____

_____

_____

A C T I V I T Y

1. Write the different number systems in the chart and display it in Computer Lab.
2. Convert 505 to Binary, Octal and Hexadecimal. Write the steps in detail.
3. Play binary flash games.

PROJECTS

1. People from different professions use computers for different purposes. Find who uses computers and for what. For example, a doctor uses it to keep records of his patients. Each student can choose a different profession, gather information and talk about it in the class.

2. Collect pictures of different kinds of computers and computer parts. Paste them together on a sheet and put it up in the computer lab.

3. What are the games that require you to stand or sit in a particular posture (e.g. Kho-kho)? Play two such games in your school playground.

4. What are the other machines in your home that you have to keep clean and use safely? Find out why you should be careful in using those machines and discuss in the class.

5. List all the instruments that have keys to be pressed to use them (e.g. mobile phone, piano). Collect pictures of the listed instruments and paste them on a sheet. Find out how they are the same or different from the keyboard of a computer and discuss in class.

THE CONSTITUTION OF INDIA

PREAMBLE

We the people of India, having solemnly resolved to constitute India into a SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC and to secure to all its citizens:

JUSTICE

social, economic and political;

LIBERTY

of thought, expression, belief, faith and worship:

EQUALITY

of status and of opportunity: and to promote among them all

FRATERNITY

assuring the dignity of the individual and the unity and integrity of the Nation;

IN OUR CONSTITUENT ASSEMBLY

this twenty-sixth day of November, 1949, do

TO HEREBY ADOPT, ENACT AND GIVE TO OURSELVES THIS CONSTITUTION.

ಶ್ರೀ ಸಿದ್ದರಾಮಯ್ಯ
ಸನ್ಮಾನ್ಯ ಮುಖ್ಯಮಂತ್ರಿಗಳು

ಶ್ರೀ ಹೆಚ್. ಅಂಜನೇಯ
ಮಾನ್ಯ ಸಮಾಜ ಕಲ್ಯಾಣ ಮತ್ತು ಹಿಂದುಳಿದ
ವರ್ಗಗಳ ಕಲ್ಯಾಣ ಸಚಿವರು ಹಾಗೂ ಅಧ್ಯಕ್ಷರು,
ಕ.ವ.ಶಿ.ಸಂ.ಸಂಘ

ಪ್ರತಿಭೆಗೆ ಪುರಸ್ಕಾರ

ಸಾಮಾಜಿಕವಾಗಿ, ಶೈಕ್ಷಣಿಕವಾಗಿ, ಆರ್ಥಿಕವಾಗಿ ಹಿಂದುಳಿದ ಗ್ರಾಮೀಣ ಪ್ರದೇಶದ ಪರಿಶಿಷ್ಟ ಜಾತಿ, ಪರಿಶಿಷ್ಟ ವರ್ಗ ಮತ್ತು ಹಿಂದುಳಿದ ವರ್ಗಗಳ ಪ್ರತಿಭಾವಂತ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಉತ್ತಮ ಗುಣಮಟ್ಟದ ಶಿಕ್ಷಣ ನೀಡುವ ಉದ್ದೇಶದಿಂದ ಕರ್ನಾಟಕ ರಾಜ್ಯ ಸರ್ಕಾರದ ವತಿಯಿಂದ 359 ಮೊರಾರ್ಜಿ ದೇಸಾಯಿ, 115 ಕಿತ್ತೂರು ರಾಣಿ ಚೆನ್ನಮ್ಮ ಮತ್ತು 05 ಅಟಲ್ ಬಿಹಾರಿ ವಾಜಪೇಯಿ ವಸತಿ ಶಾಲೆಗಳು ಸೇರಿದಂತೆ ಒಟ್ಟು 479 ವಸತಿ ಶಾಲೆಗಳನ್ನು ಸ್ಥಾಪಿಸಲಾಗಿದೆ. ಈ ವಸತಿ ಶಾಲೆಗಳಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಉಚಿತವಾಗಿ ಊಟ, ವಸತಿ ಹಾಗೂ ಗುಣ ಮಟ್ಟದ ಶಿಕ್ಷಣವನ್ನು ನೀಡುವ ಕಾರ್ಯಚಟುವಟಿಕೆಗಳನ್ನು ನಿರ್ವಹಿಸಲಾಗುವುದು.

ವಸತಿ ಶಾಲೆಗಳನ್ನು ಕೇಂದ್ರ ಸರ್ಕಾರದ ಜವಾಹರ್ ನವ್ಬೋದಯ ಕೇಂದ್ರೀಯ ವಸತಿ ಶಾಲೆಗಳ ಮಾದರಿಯಲ್ಲಿ ಸ್ಥಾಪಿಸಲಾಗಿದೆ, ಹಾಗೂ ಈ ವಸತಿ ಶಾಲೆಗಳು ಸಾಮಾಜಿಕ ಮತ್ತು ಶೈಕ್ಷಣಿಕ ಪೋಷಣೆಗೆ ಒಳಪಟ್ಟ ಜನಾಂಗದವರಿಗೆ ಗುಣಮಟ್ಟದ ಶಿಕ್ಷಣ ನೀಡಿ ಉನ್ನತ ವ್ಯಾಸಂಗಕ್ಕೆ ಅನುಕೂಲ ಮಾಡಿಕೊಟ್ಟು ಸಾಮಾಜಿಕ ಸಮಾನತೆ ಸಾಧಿಸುವ ಉದ್ದೇಶದಿಂದ ಕಾರ್ಯನಿರ್ವಹಿಸುತ್ತಿರುವುದು ಹರ್ಷದಾಯಕವಾಗಿದೆ.

ಶ್ರೀ ಗಂಗಾರಾಮ್ ಬಡೇರಿಯಾ, ಭಾ.ಆ.ಸೇ.
ಕಾರ್ಯದರ್ಶಿ, ಸಮಾಜ ಕಲ್ಯಾಣ ಇಲಾಖೆ ಹಾಗೂ
ಉಪಾಧ್ಯಕ್ಷರು, ಕ.ವ.ಪಿ.ಸಂ.ಸಂಘ

ಶ್ರೀ ಎಂ.ಆರ್. ಹೇಮಂತ್, ಕೆ.ಆ.ಸೇ.
ಕಾರ್ಯನಿರ್ವಾಹಕ ನಿರ್ದೇಶಕರು
ಕ.ವ.ಪಿ.ಸಂ.ಸಂಘ