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DIGIWARE 1

1

What is a Computer?



Let's Do This

A. Multiple Choice Questions.

1. (b) 2. (a) 3. (b)

B. State true 'T' or false 'F'.

1. T 2. F 3. F 4. T

C. Fill in the blanks.

1. natural 2. easy 3. man-made 4. computer

D. Answer the following questions.

1. A machine is a tool designed by man to make work easy and fast.
2. Computer is an electronic machine made by man that does many things.
3. Computer, microwave
4. Computer, Hand Pump

Fun Activity



1.



2. Do yourself.

3. Do yourself.

HOTS



Laptop

2

Uses of a Computer



Let's Do This

A. Multiple Choice Questions.

1. (a)

2. (b)

3. (b)

4. (c)

B. State true 'T' or false 'F'.

1. T

2. F

3. F

4. T

C. Fill in the blanks.

1. computer

2. read, write

3. store

4. draw

D. Answer the following questions.

1. (i) To solve sums

(ii) To play games

2. (i) In school

(ii) In hospital

(iii) At home

3. Tic-Tac-Toe

Fun Activity



D	P	A	I	N	T	W
R	L	N	N	I	I	R
A	A	G	D	N	C	I
W	V	L	I	E	K	T
E	I	I	A	O	E	E
E	M	A	I	L	T	O
P	L	A	Y	I	N	G

1. **DRAW**

2. **PAINT**

3. **TICKET**

4. **WRITE**

5. **EMAIL**

6. **PLAYING**

HOTS



Do yourself.

3

Parts of a Computer



Let's Do This

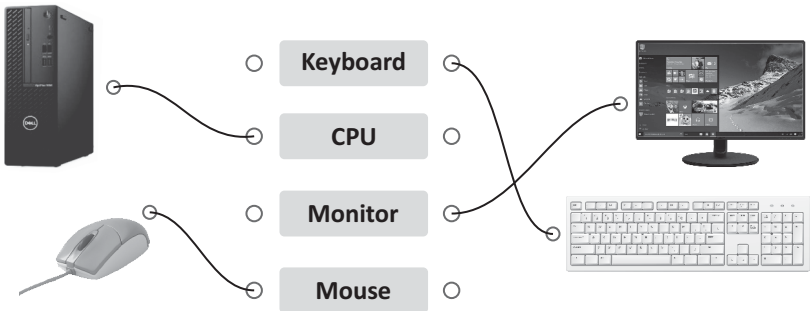
A. Multiple Choice Questions.

1. (c) 2. (a) 3. (a) 4. (c)

B. State true 'T' or false 'F'.

1. T 2. F 3. T 4. F

C. Match the following.



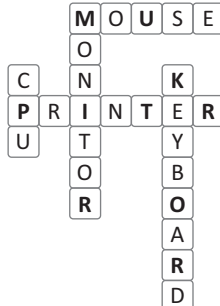
D. Answer the following questions.

1. The main parts of a computer are monitor, CPU, keyboard and mouse.
2. Monitor
3. Keyboard
4. Central Processing Unit

Fun Activity



1.



2. **A** CUP
B EAYRKDBO
C ERPNTRI
D ONIRMTTO

C P U
 K E Y B O A R D
 P R I N T E R
 M O N I T O R

HOTS



Computer

4

The Keyboard



Let's Do This

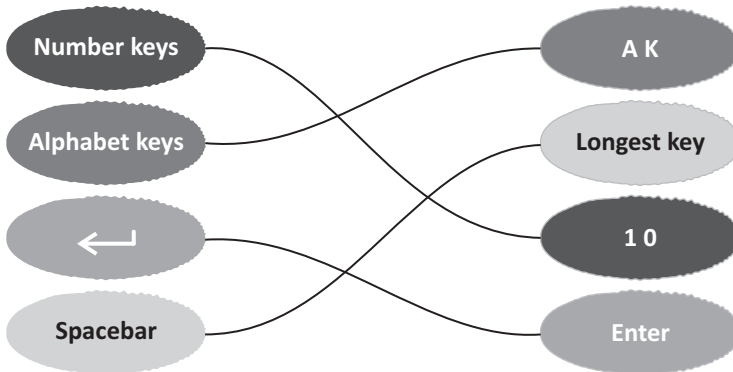
A. Multiple Choice Questions.

1. (a) 2. (a) 3. (a) 4. (c)

B. State true 'T' or false 'F'.

1. F 2. T 3. T 4. F

C. Match the following.



D. Answer the following questions.

- 104 keys
- On a keyboard there are two sets of number keys. One is above the alphabet keys and other is on the right side of the keyboard. These are used to type numbers.
- Alphabet keys

Fun Activity



1. A. alphabet B. number C. Spacebar
D. Backspace E. Enter

2. (a) I am a child

Alphabet keys ✓

Number keys ✗

Spacebar key ✓

- (b) My phone number is 9837

Spacebar key ✓

Alphabet keys ✓

Number keys ✓

- (c) I study in class 1st |
I go to school.

Alphabet keys ✓

Spacebar key ✓

Enter key ✓

HOTS



26

5

The Mouse



Let's Do This

A. Multiple Choice Questions.

1. (c) 2. (a) 3. (a) 4. (b)

B. State true 'T' or false 'F'.

1. F 2. T 3. T 4. F

C. Fill in the blanks.

1. buttons 2. clicking 3. pointer 4. CPU

D. Answer the following questions.

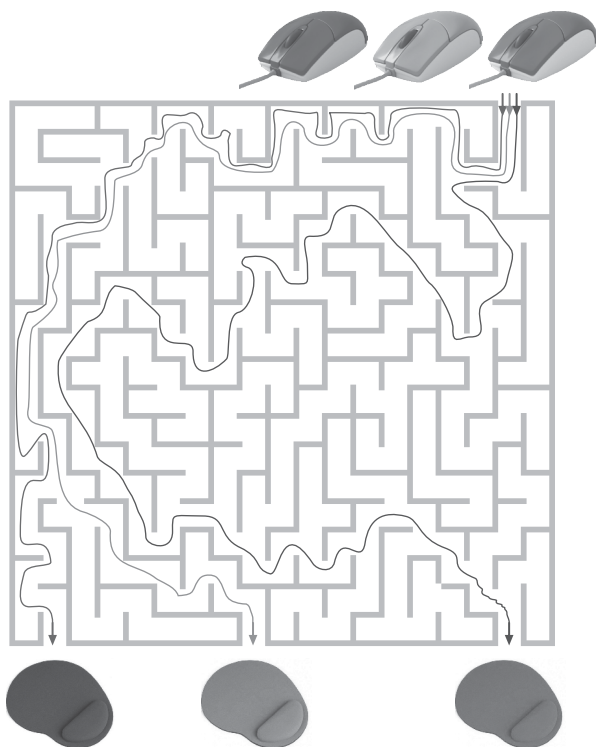
1. Pointer
2. Scroll wheel
3. Index finger
4. Index finger

Fun Activity



1. Do yourself.

2.



3.

P	I	P	W	B	S	D
P	O	I	N	T	E	R
T	S	M	A	L	L	A
S	P	Q	L	Z	E	W
M	O	C	L	I	C	K
I	R	F	A	S	T	P

HOTS



Computer Mouse, Stapler



Let's Do This

A. Multiple Choice Questions.

1. (a) 2. (c) 3. (a) 4. (a)

B. State true 'T' or false 'F'.

1. F 2. T 3. T

C. Answer the following questions.

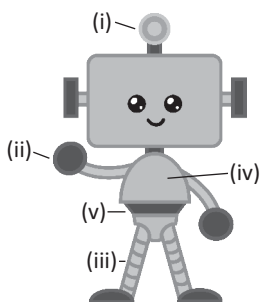
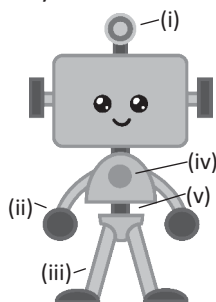
1. Storage devices
2. Hard Disk
3. Compact Disk

Fun Activity

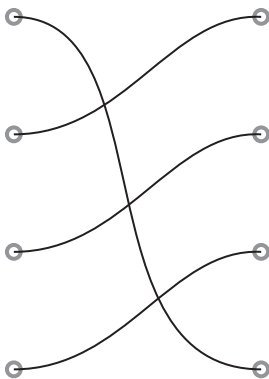
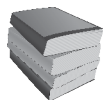


1. Do yourself.

2.



3.



HOTS



Humans store data in their mind.

Storage devices store more data than humans.

7

Play with TUX Paint



Let's Do This

A. Multiple Choice Questions.

1. (c)
2. (b)
3. (c)

B. State true 'T' or false 'F'.

1. F
2. T
3. T
4. T

C. Fill in the blanks.

1. Fun
2. Help area
3. Canvas
4. Eraser

D. Answer the following questions.

1. New tool
2. Eraser tool
3. Quit tool
4. Tux Paint is a drawing and coloring software program. It helps kids in drawing various shapes and coloring them.

It also allows us to add sound effects and amazing cartoon mascots which are all for fun.

Fun Activity



1. See book page no. 44.

2. Do yourself.

3.



New Tool



Fill Tool



Open Tool



Save Tool



Quit Tool

HOTS



Stamp tool is a unique tool in Tux Paint. It is a collection of various stamps and stickers. Stamps allow you to put stickers on your canvas while you use Tux Paint.

8

Introduction to Artificial Intelligence



Let's Do This

A. Multiple Choice Questions.

1. (a) 2. (b) 3. (a)

B. State true 'T' or false 'F'.

1. F 2. T 3. T

C. Fill in the blanks.

1. Machine 2. Artificial 3. Intelligence

D. Answer the following questions.























































1. John McCarthy is the father of AI.
2. Artificial Intelligence.
3. With the advancement in technology, AI is also being demanded everywhere in almost all fields. The reason for its increased needs is that AI provides accuracy, modern tech, educational tools, web-designed tasks, saves times, etc.

Fun Activity



1. Do yourself.

2.

      9 5 6 8	      5 1 9 3	      2 4 6 7
      5 6 2 4	      2 6 4 7	      8 1 9 5
      8 3 7 9	      1 3 8 2	      4 3 7 1

HOTS



Self-driving car, chatbots, social media, gaming, navigator.

1

Computer: A Machine



Let's Do This

A. Multiple Choice Questions.

1. (b) 2. (a) 3. (c) 4. (a)

B. State true 'T' or false 'F'.

1. F 2. F 3. F 4. F

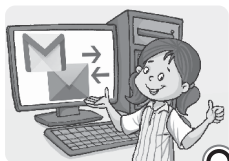
C. Fill in the blanks.

1. think 2. draw, paint 3. desktop 4. laptop

D. Answer the following questions.

- Computer is an electronic machine which can do many things at the same time very quickly and accurately.
- Schools, Banks, Hospitals, Offices, Airports.
- To maintain the details of customers and their accounts.
 - To deposits and withdraw money from ATM.
- Desktop, Laptop, Tablet

Fun Activity



HOTS

1. Tablet

2. Laptop

3. Desktop

2**Parts of a Computer****Let's Do This****A. Multiple Choice Questions.**

1. (b)

2. (a)

3. (a)

4. (c)

B. State true 'T' or false 'F'.

1. T

2. T

3. F

4. T

C. Fill in the blanks.

1. Keyboard

2. Joystick

3. CPU

4. Printer

D. Answer the following questions.

1. Following are the various parts of computer:

(i) Monitor

(ii) CPU

(iii) Keyboard

(iv) Mouse

2. Input device : Keyboard

Output device : Monitor

3. Speakers, Joystick

4. Mouse is also known as Pointing device.

Fun Activity

1. KEYBOARD

2. MOUSE

3. JOYSTICK

4. WEBCAM

HOTS

Uninterruptible Power Supply (UPS)

3

Operating A Computer



Let's Do This

A. Multiple Choice Questions.

1. (a)
2. (c)
3. (b)
4. (a)

B. State true 'T' or false 'F'.

1. T
2. T
3. T
4. T

C. Fill in the blanks.

1. elder
2. monitor
3. icons
4. care

D. Answer the following questions.

1. Start button is typically found in the taskbar, which is a horizontal bar located at the bottom of the screen in Windows.
The Start button is represented by the Windows logo, icon, usually positioned at the left end of the taskbar.
2. The operating system is a program that makes the computer work.
3. Wallpaper.
4. Icons, Taskbar, Wallpaper, Start button.

Fun Activity



Do yourself.

HOTS



A password is a string of characters used to verify the identity of a user during the authentication process. Adding passwords helps ensure that computers or data can only be accessed by those granted the right to view or access them.

4

Keyboard: The Typing Device



Let's Do This

A. Multiple Choice Questions.

1. (a)
2. (b)
3. (c)
4. (b)

B. State true 'T' or false 'F'.

1. F 2. T 3. F 4. T

C. Fill in the blanks.

1. Esc key 2. function 3. numbers 4. Enter key

D. Answer the following questions.

1.
 - **Backspace key** : It erases the character just left to the cursor.
 - **Delete key** : It is used to delete a character just right to the cursor.
2. Cursor control key.
3. Following are the different types of keys on the keyboard:
 - (i) Alphabet keys
 - (ii) Number keys
 - (iii) Special keys
 - (iv) Function keys
4. Spacebar key

Fun Activity



Do yourself.

HOTS



104 keys.

5

Handling A Mouse



Let's Do This

A. Multiple Choice Questions.

1. (c) 2. (a) 3. (c) 4. (a)

B. State true 'T' or false 'F'.

1. F 2. T 3. T 4. F

C. Fill in the blanks.

1. double-click 2. right-click 3. mouse pointer 4. optical

D. Answer the following questions.

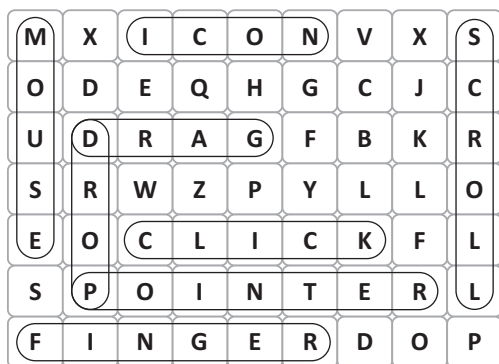
1. When we scroll the mouse's wheel, to see the hidden area is termed as scrolling. This is used to move the Page Up and Page Down.
2. Clicking a mouse means to press left button once. This action is usually done to select any item on the monitor screen.

3. Index finger.
4. Clicking and Pointing.

E. Match the following.

- | | | |
|------------------|---|---|
| 1. Right-click | → | (a) Keep the left button of the mouse pressed and move the mouse. |
| 2. Drag and drop | → | (b) Hold the mouse and press the right button once. |
| 3. Double-click | → | (c) Hold the mouse and press the left button once. |
| 4. Single-click | → | (d) Press the left button of the mouse two times quickly. |

Fun Activity



HOTS



Middle finger

6

Introduction to MS-Paint



Let's Do This

A. Multiple Choice Questions.

- | | | | |
|--------|--------|--------|--------|
| 1. (a) | 2. (a) | 3. (b) | 4. (c) |
|--------|--------|--------|--------|

B. State true 'T' or false 'F'.

- | | | | |
|------|------|------|------|
| 1. F | 2. F | 3. F | 4. T |
|------|------|------|------|

C. Fill in the blanks.

1. Pencil tool
2. Canvas
3. Shift
4. Title Bar

D. Answer the following questions.

1. See topic 'Starting MS Paint' on book page no. 45.
2. The Pencil tool is used to draw freehand shapes or lines.
4. The Brush tool is just like a painting brush. It draws freehand lines with various thicknesses.

Fun Activity



See book page no. 46.

HOTS



Do yourself.



More About TUX Paint



Let's Do This

A. Multiple Choice Questions.

1. (a)
2. (c)
3. (b)
4. (c)

B. State true 'T' or false 'F'.

1. F
2. T
3. F
4. T

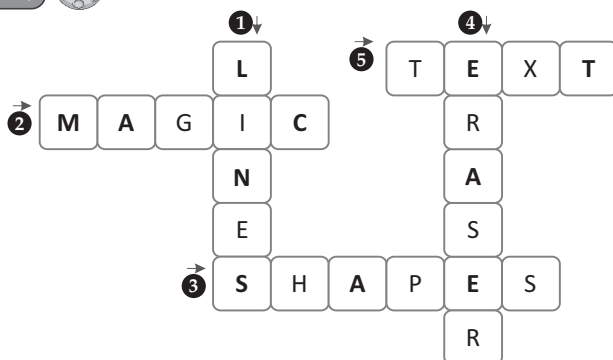
C. Fill in the blanks.

1. lines
2. text
3. outline
4. magic

D. Answer the following questions.

1. Using Shapes tool, you can draw filled and unfilled shapes. The unfilled shapes have only outline but filled shapes have solid colored background.
2. Ctrl + N
3. You can choose different colors from the color Palette to draw and paint.
4. See topic 'Saving A Drawing' on book page no. 62.

Fun Activity



HOTS



Fill Magic Effect.

8

More About AI



Let's Do This

A. Multiple Choice Questions.

1. (a)
2. (b)
3. (b)
4. (c)

B. State true 'T' or false 'F'.

1. T
2. T
3. T
4. F

C. Fill in the blanks.

1. Sophia
2. Faster
3. Costly
4. Emotions

D. Answer the following questions.

1. AI or artificial intelligence means that the machines which can replicate humans. It means the use of machines in such manner which can do a man's work by thinking on their own.
2. (i) We can drive an AI car.
(ii) We can play games with AI such as chess, poker, etc.
3. (i) Reduction in human error.
(ii) Unbiased and faster decision making.

4. (i) High costs
(ii) Results in unemployment

Fun Activity



Following are the uses of AI in daily routine.

- (i) AI in healthcare
- (ii) AI in entertainment
- (iii) AI in transportation
- (iv) AI in cyber security
- (v) Personal assistants
- (vi) Online shopping
- (vii) Navigation and traffic
- (viii) Image recognition

Now collect pictures and paste them in your scrapbook.

HOTS



AI helps in reducing **Human Error**.



Computer System



Let's Do This

A. Multiple Choice Questions.

1. (a) 2. (a) 3. (c) 4. (b) 5. (a)

B. State true 'T' or false 'F'.

1. F 2. T 3. T 4. T 5. T

C. Match the following.

1. (b) 2. (e) 3. (a) 4. (d) 5. (c)

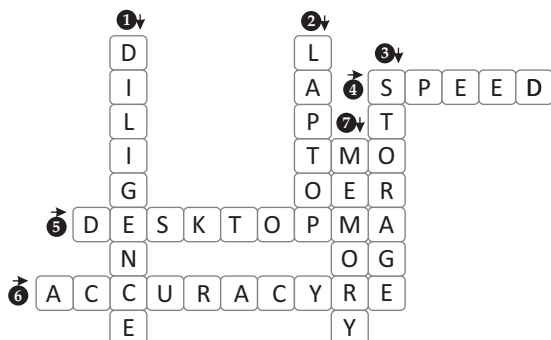
D. Answer the following questions.

1. Arithmetic and Logical unit (ALU), Control Unit (CU) and Memory Unit (MU).
2. Input device is a device used to give data and instructions to the computer. It has the following functions:
 - (i) It takes data and instruction from the user.
 - (ii) It converts data in computer understandable language.
 - (iii) It gives converted data to the computer.
3. Laptop, Desktop, Tablet, Smart phone.
4. Following are the characteristics of a computer:
 - (i) **Accuracy** : A computer never make mistakes and give true result only.
 - (ii) **Speed** : A computer works very fast and completes long calculations within a few seconds. Speed of a computer is measured in Gigahertz.
 - (iii) **Storage** : A computer can store huge data and information in its memory.
5. (i) It can not learn anything on its own.
(ii) It has no emotions.

Fun Activity



1.



2.



O

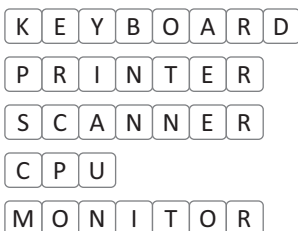


I



P

3.



HOTS



Input devices : Keyboard, mouse

Output devices : Monitor, printer

2

Understanding Windows



Let's Do This

A. Multiple Choice Questions.

1. (a)

2. (b)

3. (a)

4. (c)

5. (b)

B. State true 'T' or false 'F'.

1. T 2. T 3. T 4. F 5. T

C. Fill in the blanks.

1. Auto arrange icons 2. Taskbar 3. Ctrl 4. wallpaper
5. Shift

D. Answer the following questions.

1. Operating system is a special set of programs that manages all the functions of a computer and executes them. It is a software which helps in operating a computer.

Popular operating system are :



Ms Windows



Mac OS

2. Microsoft Windows is one of the most popular operating systems. It was developed by Microsoft corporation, USA.
3. Desktop is the first screen that appears when you turn on the computer. This desktop has the following components:

See book page no. 16, 17.

4. Icons are the small pictures present on the desktop. Each icon represents a program, file or folder, etc. We can directly open programs by double-clicking on the icons.

Following are some commonly seen icons:



This PC



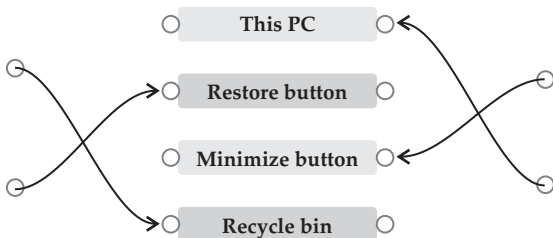
Recycle Bin



Control Panel

5. Maximize button makes window grow to its maximum size.

Fun Activity





Uninterruptible Power Supply (UPS)

3

Introduction to MS Word 2016



Let's Do This

A. Multiple Choice Questions.

1. (a) 2. (a) 3. (c) 4. (b) 5. (a)

B. State true 'T' or false 'F'.

1. F 2. T 3. T 4. F 5. T

C. Fill in the blanks.

1. Ctrl+N 2. Quick access toolbar 3. Tabs 4. Work Area
5. Ribbon

D. Answer the following questions.

1. MS Word is an application software which helps in typing and formatting text on a computer.

It has following components :

Quick Access Toolbar, Title Bar, Tabs, work Area

2. See topic 'Deleting the Text' on book page no- 28.
3. See topic 'Creating a New Document' on book page no- 27.
4. The ribbon is a command bar that organizes a program's features into a series of tabs at the top of the screen. These tabs are further divided into groups. Each group has a number of options that are used in word.

Fun Activity



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



See topic 'Creating a New Document' on book page no- 27.

4

Editing in MS Word 2016



Let's Do This

A. Multiple Choice Questions.

1. (a) 2. (c) 3. (b) 4. (c)

B. State true 'T' or false 'F'.

1. T 2. F 3. F 4. T 5. T

C. Fill in the blanks.

1. Editing 2. Copy, Paste 3. Thesaurus
4. Right-click 5. Clipboard

D. Answer the following questions.

- See topic 'Selecting Text' on book page no- 34, 35.
- Undo Option** : It is used for reversing the last action we performed in MS-Word.
Redo Option : It is used to repeat the action we have undone using the undo option.
- Using the **Spell Check** feature of MS Word, you can correct all the spellings and grammatical mistakes that may have accused. A red wavy line indicates wrong spelling. A blue wavy line indicates wrong grammar.
- See topic 'Copying the Text' on book page no- 35.
- Thesaurus is a tool, which is used in MS Word to search for synonyms of a word. It helps writers to find exact and suitable words to express their idea.

Fun Activity



1.

C O P Y

P A S T E

U N D O

S P E L L C H E C K

2.

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

HOTS



A red wavy line indicates wrong spelling.
A blue wavy line indicates wrong grammar.

5

More on MS-Paint



Let's Do This

A. Multiple Choice Questions.

- (b)
- (b)
- (a)
- (a)
- (a)

B. State true 'T' or false 'F'.

- T
- T
- T
- F

C. Fill in the blanks.

- Cut/Paste
- Rotate
- Resize/Skew
- Color Picker
- Rectangular

D. Match the following.

- (b)
- (d)
- (a)
- (e)
- (c)

E. Answer the following questions.

- There are two types of selection tools as given below:
 - Rectangular Selection** : It is a rectangular area of selection.
 - Free-form Selection** : It is an irregular area of selection.
- See topic 'Moving an Image' on book page no- 46, 47.

3. See topic 'Rotating or Flipping an Image' on book page no- 48.
4. See topic 'Moving an Image' on book page no- 46.
5. (a) Both **Cut** and **Copy** store the selected text in the clipboard so you can paste it else where. The difference is that the **Cut** method deletes the original from the document, while the **Copy** method leaves the original in place, allowing you to paste its duplicate somewhere else.
- (b) When you rotate an object, it moves left or right around an axis and keeps the same face toward you. When you flip an object, the object turns over, either vertically or horizontally, so that the object is now a mirror image.
- (c) The Resize option helps us to resize an image whereas the Skew option helps us to turn an image by a few degrees.

Fun Activity



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

HOTS



She should use Color Picker tool.

6

Introduction to Scratch



Let's Do This

A. Multiple Choice Questions.

1. (b)
2. (a)
3. (c)
4. (a)
5. (b)

B. State true 'T' or false 'F'.

1. T
2. F
3. T
4. F
5. T

C. Fill in the blanks.

1. Script
2. Sprite
3. white
4. Motion
5. Pen

D. Answer the following questions.

1. See topic 'Uses of Scratch' on book page no- 52.
2. (i) **Menu Bar** : It is used to display drop down menus that provide common commands to the user, such as New, Save etc.
(ii) **Blocks Palette** : This area shows all the blocks available to you. Blocks are color-coded by category. They can be dragged to coding area for coding sprite on stage.
3. Sprite is a small character that performs all actions in the Scratch. Sprite perform the action based on the script using various blocks of Scratch.
4. **Motion Blocks** define the movement of sprites.
5. See topic 'Let Us Try' on book page no- 57.

Fun Activity



1. See book page no- 53.

2.

S	C	R	I	P	T	S
S	P	R	I	T	E	
B	L	O	C	K	S	
B	A	C	K	D	R	O
S	C	R	A	T	C	H

HOTS



when clicked



Internet



Let's Do This

A. Multiple Choice Questions.

1. (b)
2. (c)
3. (a)
4. (c)
5. (c)

B. State true 'T' or false 'F'.

1. T 2. F 3. T 4. T 5. T

C. Fill in the blanks.

1. network 2. search 3. internet 4. URL 5. Website

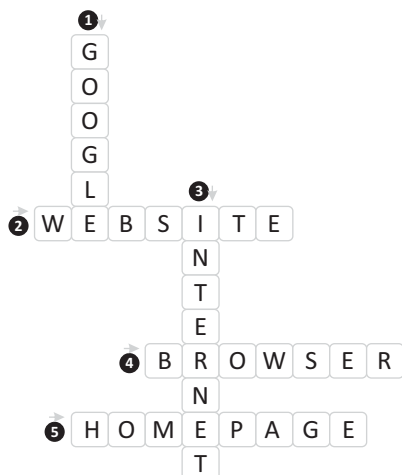
D. Answer the following questions.

- Internet is a worldwide network of computers, which allows sharing of information. Two uses of internet are:
 - We can search for anything on the internet.
 - Online banking is possible because of the internet.
- Web browser is a software to view and explore information on the web. Some commonly used web browsers are :
Microsoft Edge, Google Chrome, Mozilla and Opera.
- Internet is like a large library containing information about almost everything.
 - Using Internet's online shopping, Customer can directly purchase product from company at a better price.
- Search engine is a tool that helps user to search URL of a website. User simply gives some keywords related to contents of website and Search Engines display names of all websites related to those keywords. Some commonly used search engines are Goolge, Bing, Ask and Yahoo.
- Website is a collection of web pages and related content. You can move from one web page to another webpage in a website using hyperlinks.

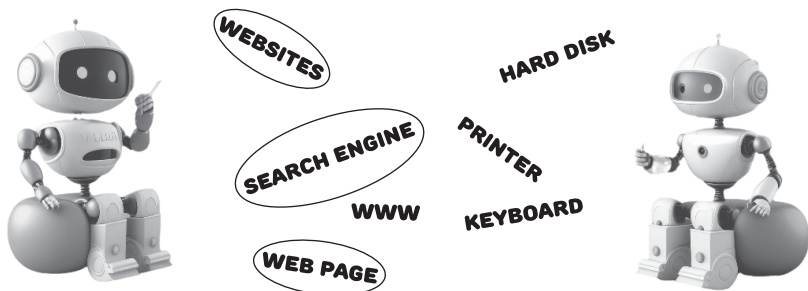
Fun Activity



1.



2. These robots is speaking some words. Circle the Internet-related words and write them in the space given below.



WEBSITES, SEARCH ENGINE, WWW, WEB PAGE

HOTS



With the internet, they can connect with each other. They can send and receive all kinds of information.

8

AI Enabled Devices



Let's Do This

A. Multiple Choice Questions.

1. (c) 2. (a) 3. (a) 4. (c) 5. (a)

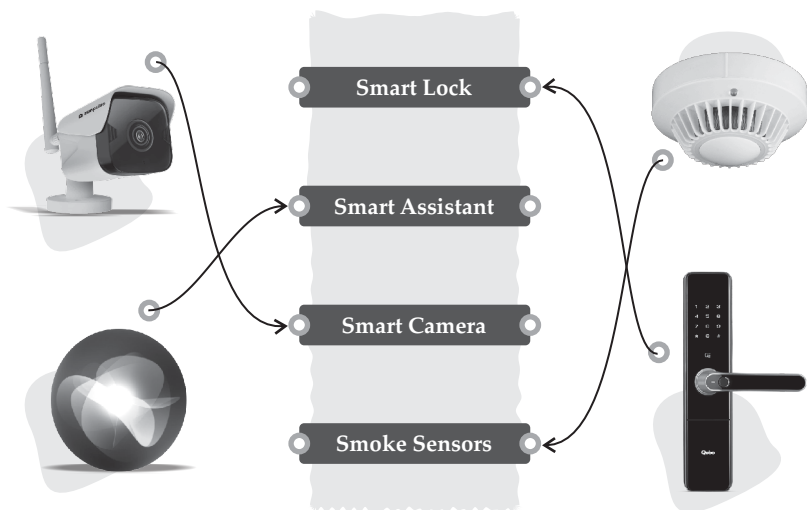
B. State true 'T' or false 'F'.

1. T 2. F 3. F 4. T 5. T

C. Fill in the blanks.

1. Artificial Intelligence 2. Internet 3. Footage
4. virtual

D. Match the following.



E. Answer the following questions.

1. (i) Copy human intelligence
(ii) Learn new things by itself
2. Smart assistant, smart lighting, smart cameras, smart locks
3. Smart virtual assistant use speech recognition technology to interact with users to do a variety of tasks. It plays music, manages lights, book cabs, sets reminders, etc.

Example : Alexa and Siri

4. Smart bulbs

Smart Camera	Smart Lock
The smart home security system allows you to view your home at any time anywhere using your smart phone or other connected device. You can receive video alerts when your motion-detection camera records any movement. It also gives you an easy way to access the recorded footage.	A smart lock is a Wi-Fi enabled device that uses app or smart voice assistant. It lets users lock doors through their smartphone or voice commands only. Smart locks even allow remote access to a third party, so a guest can unlock the smart lock on the door and enter inside while you are not at home.

Fun Activity



1. S E N S O R
S M A R T L O C K
A L E X A

2.



Smart Watch



Smart Phone



Smart AC

HOTS



Smart Phone



Input and Output Devices



Let's Do This

A. Multiple Choice Questions.

1. (b) 2. (b) 3. (b) 4. (a) 5. (a)

B. State true 'T' or false 'F'.

1. F 2. T 3. T 4. F 5. T

C. Fill in the blanks.

1. Speakers 2. Softcopy 3. Printer
4. Pointing 5. Microphone

D. Match the following.

1. (e) 2. (c) 3. (b) 4. (a) 5. (d)

E. Answer the following questions.

1.

Input Devices	Output Devices
<p>A device that is used to feed the data and instructions into a computer is called the input device.</p> <p>Example : Keyboard, Mouse etc.</p>	<p>Output devices are those which the computer uses to display the information and results.</p> <p>Example : Monitor, Printer etc.</p>

- See topic 'Monitor' on book page no- 8.
- See topic 'Printer' on book page no- 9.
- Plotter draws pictures on a paper based on commands from a computer. It is widely used for printing maps, posters, etc.
- A computer monitor, also known as a Visual Display Unit (VDU). It is called VDU because it displays text and graphics on a screen.

Fun Activity



1. Identify these devices as Input or Output and tick ✓ against the correct option. Write the function of each device.



INPUT ☒

OUTPUT ☐

Scan the document and converts it into digital form.



INPUT ☐

OUTPUT ☒

It gives hard copy output by printing the data on to a paper.



INPUT ☐

OUTPUT ☒

A good quality speaker with good quality of sound.

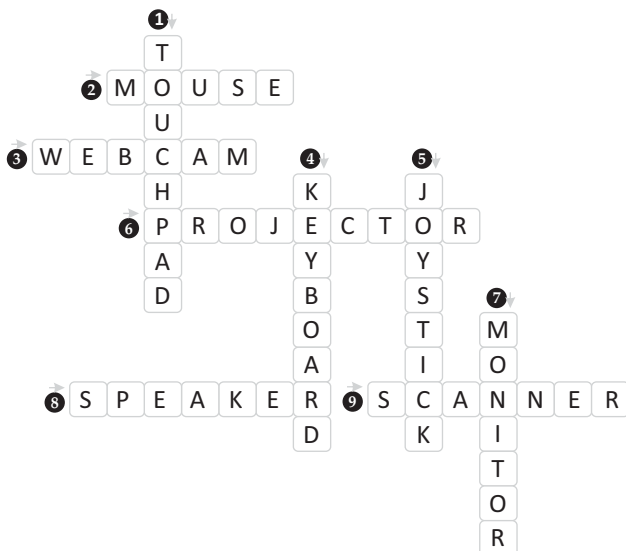


INPUT ☒

OUTPUT ☐

It reads barcode as input data.

2. Complete the following crossword puzzle with the help of clues given below.



HOTS



This happened because of **barcode reader** which reads barcode as input data.



Let's Do This

A. Multiple Choice Questions.

1. (c) 2. (c) 3. (c) 4. (a) 5. (b)

B. State true 'T' or false 'F'.

1. T 2. F 3. T 4. F 5. T

C. Fill in the blanks.

1. DVD 2. Binary 3. Storage
4. Hard disk 5. Primary, Secondary

D. Match the following.

1. (a) 2. (d) 3. (b) 4. (c)

E. Answer the following questions.

1. The data is stored inside the computer in different storage areas, known as the **memory** of computer. This memory may be temporary or permanent.

The computer's memory is divided into two categories, namely **Internal (Primary) Memory** and **External (Secondary) Memory**.

2. Hard disks are a type of non-volatile storage, retaining stored data when powered off. Hard disks are commonly used as the main storage device in a computer.

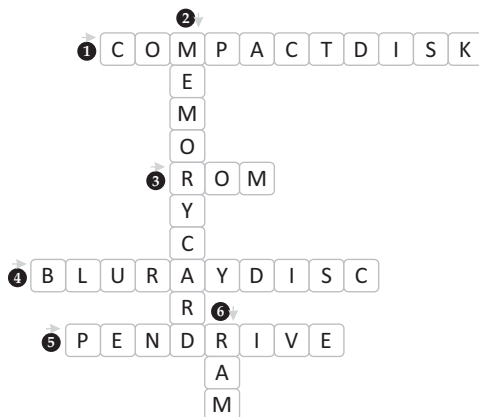
3.	<table border="1"> <thead> <tr> <th>RAM</th><th>ROM</th></tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> RAM stands for Random Access Memory Temporary storage </td><td> <ul style="list-style-type: none"> ROM stands for Read Only Memory Permanent Storage </td></tr> </tbody> </table>	RAM	ROM	<ul style="list-style-type: none"> RAM stands for Random Access Memory Temporary storage 	<ul style="list-style-type: none"> ROM stands for Read Only Memory Permanent Storage
RAM	ROM				
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4.	<table border="1"> <thead> <tr> <th>Internal Memory</th><th>External Memory</th></tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> It is the main memory where the data and information are stored temporarily. Data is directly accessed by the processing unit </td><td> <ul style="list-style-type: none"> It refers to the external memory where data is stored permanently. Data cannot be accessed directly by the processor. </td></tr> </tbody> </table>	Internal Memory	External Memory	<ul style="list-style-type: none"> It is the main memory where the data and information are stored temporarily. Data is directly accessed by the processing unit 	<ul style="list-style-type: none"> It refers to the external memory where data is stored permanently. Data cannot be accessed directly by the processor.
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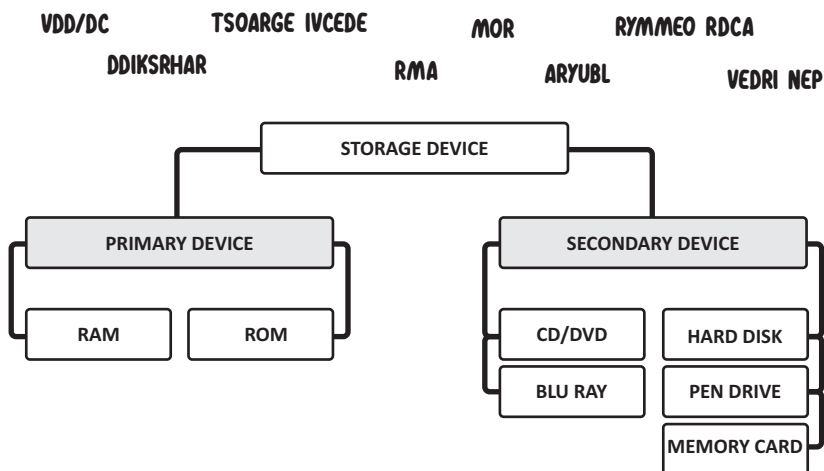
Fun Activity



- Complete the following crossword puzzle with the help of clues given below.



- Rearrange the words given in the clouds and then place them in the appropriate box to complete the flowchart as given below:



HOTS



Do yourself

More About Window 10



Let's Do This

A. Multiple Choice Questions.

1. (c) 2. (c) 3. (a) 4. (c) 5. (a)

B. State true 'T' or false 'F'.

1. F 2. T 3. T 4. F 5. F

C. Fill in the blanks.

1. desktop 2. This PC 3. Taskbar 4. Folder

D. Rearrange the letters to get correct words.

1. DESKTOP 2. WINDOWS 3. FILE
4. FOLDER 5. RENAME

E. Answer the following questions.

1. When we switch on a computer, Windows operating system starts loading into the computer's memory. Once the process is completed, the first screen that appears on the monitor is known as the **desktop**. It contains icons which are the graphical image or symbols representing files or programs.

Following are the various components of a desktop :

Start button, Live Tiles, Icons, Desktop, Quick Launch Bar, System Tray

2. On deleting files and folder from the computer, they are stored in Recycle Bin on temporary basis.
3. The Control Panel is a component of Microsoft Windows that provides the ability to view and change system settings.
4. See topic 'Renaming a File or Folder' on book page no- 26.
5. See topic 'Deleting a File or Folder' on book page no- 27.

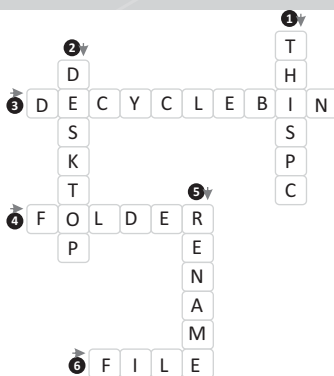
Fun Activity



1.

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

2.



HOTS



See topic 'Creating a Folder on The Desktop' on book page no- 26.

4

Formatting in MS-Word 2016



Let's Do This

A. Multiple Choice Questions.

1. (c)
2. (c)
3. (b)
4. (b)
5. (a)

B. State true 'T' or false 'F'.

1. T
2. T
3. F
4. F
5. F

C. Fill in the blanks.

1. Home
2. Font
3. Bold
4. Bullet
5. Format painter

D. Answer the following questions.

1. See topic 'Formatting the text' on book page no- 32.
2. See topic 'Copying Formatting' on book page no- 36.
3. See topic 'Changing Text Case' on book page no- 35.
4. A bullet list is used when constructing a list of two or more items, where the order of the items is unimportant. It is a series of items with a heading broken up by dotted points.
5. See topic 'Changing the Alignment of Text' on book page no- 37.

Fun Activity



HOTS



On the **Home** tab in the **Paragraph** group, click the arrow next to bullets, and then click **Define New Bullet**.



Introduction to PowerPoint 2016



Let's Do This

A. Multiple Choice Questions.

1. (c)
2. (c)
3. (c)
4. (a)
5. (a)

B. State true 'T' or false 'F'.

1. T
2. F
3. T
4. F
5. T

C. Fill in the blanks.

1. MS-Office2016
2. Title Bar
3. New slides
4. Esc
5. Title Slide

D. Match the following.

1. SLIDES
2. PRESENTATION
3. POWERPOINT
4. PLACEHOLDER
5. SLIDESHOW

E. Answer the following questions.

1. A combination of various slides depicting a graphical and visual interpretation of data, to present information in a more creative and interactive manner is called a PowerPoint presentation.
2. Every presentation is made up of many pages. These pages are called **slides**. A slide can have text, animation, videos, sound effects etc.

3. See topic 'Adding a New Slide' on book page no-46.
4. A slide layout determines the arrangement of various objects on a slide. It contains formatting, positioning, and placeholder boxes for all of the content that appears on a slide.
5. When many slides are run together one after the other, it is called a **Slideshow**.

Fun Activity



1. See Picture on book page no- 44.

2.

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

HOTS



See topic 'Creating the Title Slide' on book page no-45.

6

More About Scratch

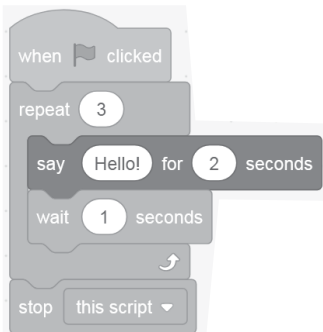


Let's Do This

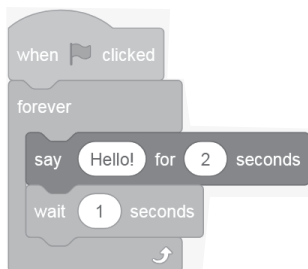
A. Multiple Choice Questions.

1. (b)
2. Wait block
3. (a)

4. (c)



5. (a)



B. State true 'T' or false 'F'.

1. F
2. F
3. T
4. F
5. T

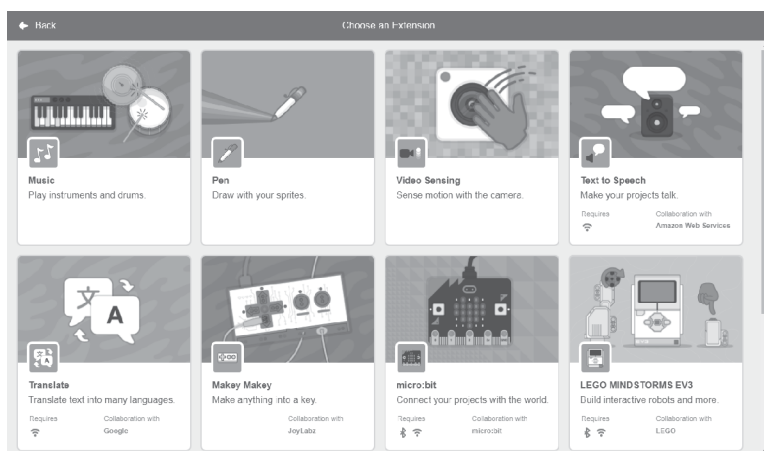
C. Fill in the blanks.

1. Costume
2. Pen
3. Polygon
4. 360
5. Hexagon

D. Answer the following questions.

1. Pen block in scratch allows a sprite to draw shapes using different colors and sizes. By default, Pen is not located in the blocks category. To use Pen block, you have to enable it from Extensions.
2. Pen block is used to draw shapes using different colors and sizes. By default, Pen is not located in the Blocks category. To use Pen block, you have to enable it from **Extensions**.

Step 1 : Click **Add Extension** button from the bottom left corner. Choose an Extension window appears.




Step 2 : Click on **Pen** extension. Pen extension appears in the Blocks category.
Now consider the following steps to draw a line :

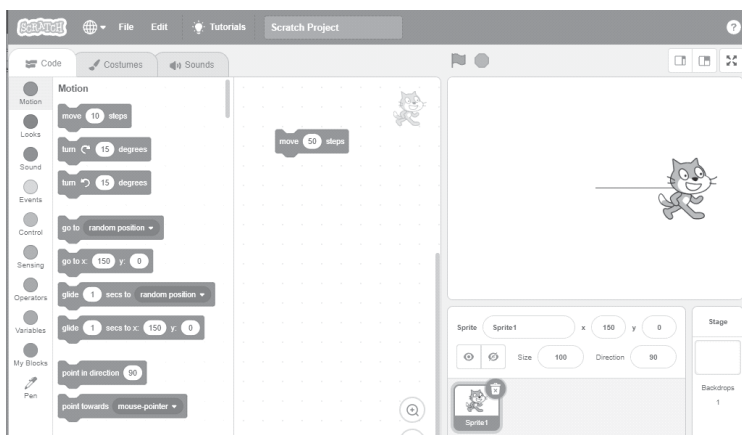
Step 1 : Click the **Pen** block from block palette.

Step 2 : Click on  **pen down** block.

Step 3 : Click the **Motion** block.

Step 4 : In the Blocks Palette, click the  block and change the number 10 to 50.

Step 5 : Click the  block. The cat on the stage moves in the direction of its face and leaves a line behind it.



3. Polygons are 2D shapes with three or more straight lines and angles. Three polygon shapes are :
Square, Pentagon, Hexagon
4. Say () block
5. See topic 'Changing the Costume of Sprite' on book page no- 61.

Fun Activity



1. Write the commands to draw these polygons.



Repeat 9 Move 100
Steps Turn 40 degrees

Nonagon



Repeat 10 Move 100
Steps Turn 36 degrees

Decagon



Repeat 5 Move 100
Steps Turn 72 degrees

Pentagon



Repeat 4 Move 100
Steps Turn 90 degrees

Square



Repeat 7 Move 100
Steps Turn 51 degrees
Heptagon

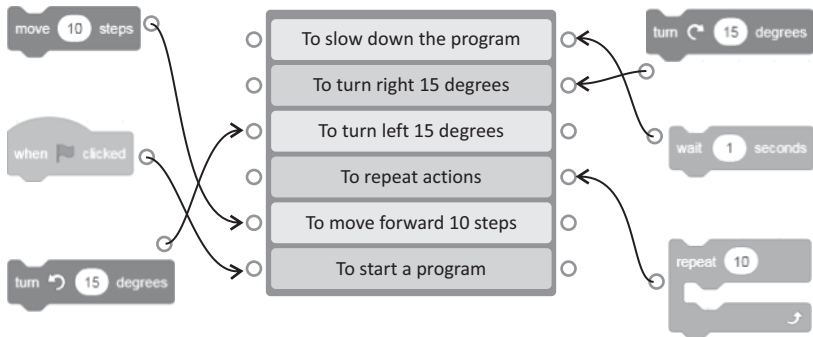


Repeat 3 Move 100
Steps Turn 120 degrees
Triangle

2.

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

3.



HOTS



To use blocks like Music, Video Sensing, Text to Speech, etc, you need to click on the **Add Extension** . Now click on these extension to add Music, Video Sensing and Text to Speech extension.

- The **Music Extension** is an extension that allows users to play notes and compose music in Scratch. These blocks are sampled instruments to create the sounds.
- **Video Sensing** block is used to sense motion with the camera.
- **Text to speech** block is used to make you projects talk.
- **Pen block** is used to draw shapes using different colors and sizes. To use Pen block, You have to enable it from Extensions.

More on Artificial Intelligence



Let's Do This

A. Multiple Choice Questions.

1. (a) 2. (c) 3. (b) 4. (c)

B. State true 'T' or false 'F'.

1. T 2. T 3. F 4. T 5. T

C. Fill in the blanks.

1. Smartphone 2. Internet
3. Smart speaker 4. Cortana 5. NLP

D. Answer the following questions.

1. The main goals of AI are to:
 - copy human intelligence
 - carry out knowledge-intensive tasks
 - learn new things by itself
 - build machines which can perform tasks that require human intelligence such as:
 - Playing chess
 - Plan and carry out surgical operations
 - Driving a car in traffic
 - AI has the potential to help humans live more meaningful and comfortable lives.
2. See topic 'AI in Smart Homes' on book page no- 68.
3. Smart bulbs, Smart doorbell, Smart Camera,
4. See topic 'Internet of Things' on book page no- 71.
5. Natural Language Processing (NLP) is an emerging technology that is going to change the way you interact with the computers. NLP is the process of making computers understand human languages.

Applications of NLP

Alexa : Alexa makes use of NLP to interpret the voice commands and convert them into text commands.

Cortana : Cortana is a personal digital assistant developed by Microsoft. It includes the various types of features, such as calendar, reminders,

alarms, Photo reminders, recognise, natural voices without the requirement for keyboard input, and answers the queries.

Google Maps : It is an application that is widely used for navigation. It helps the users in finding out the directions to reach a certain location.

Fun Activity



Face detection, Finger touch

HOTS



See topic 'Creating the Title Slide' on book page no- 45.

8

More About Internet



Let's Do This

A. Multiple Choice Questions.

1. (a)
2. (c)
3. (b)
4. (a)
5. (a)

B. State true 'T' or false 'F'.

1. T
2. T
3. T
4. T
5. F

C. Fill in the blanks.

1. Internet
2. Google
3. unique
4. Internet Service Provider
5. text, picture.

D. Answer the following questions.

1. Internet stands for **Inter connected Network**. Internet is the largest network in the world connecting millions of people world wide. The computers of the Internet are connecting through telephone lines, satellite links and through many other means.
2. Home page is the main or first page for a particular website . We get this page when we open a website.
3. Three uses of internet :

Searching : We can get any kind of information on access to the Internet. There are various websites available for searching information.

Reservation : We can book airline / railway / bus or even movie tickets through the Internet.

Online Education : Online education through e-learning (electronic learning) websites has made education easily accessible. All the study materials and information are available to us on the Internet.

4. Internet Service Provider (ISP) is a company or an organisation which provides access to the Internet. Some popular ISPs are Bharat Sanchar Nigam Limited (BSNL), Mahanagar Telephone Nigam Limited (MTNL), Airtel, Jio, Vi, etc.
5. See topic 'Internet Service Provider' on book page no- 79.

Fun Activity



1. Name the following with the help of words given in the box.

1. geographic.com
2. Facebook.com
3. Microsoft Edge
4. google.com

2. Arrange the following letters to get meaningful words.

S E A R C H E N G I N E
I N T E R N E T
A R P A N E T
H Y P E R L I N K
M I C R O S O F T E D G E

HOTS



You can download any picture or graphic by using the Internet. There is no restriction on downloading or reusing them.

Computer History & Development



A. Multiple Choice Questions.

1. (a) 2. (b) 3. (b) 4. (a) 5. (b)

B. State true 'T' or false 'F'.

1. F 2. T 3. T 4. T 5. T

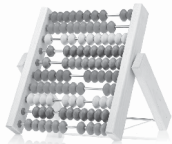
C. Fill in the blanks.

1. Abacus
2. Charles Babbage
3. Integrated Circuits
4. transistors
5. first

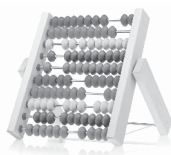
D. Write full forms of the following.

1. ENIAC : Electronic Numeric Integrator and calculator
2. UNIVAC : Universal Automatic Computer
3. ABC : Atanasoff- Berry Computer
4. IBM : International Business Machine
5. VLSI : Very Large scale Integration

E. Answer the following questions.

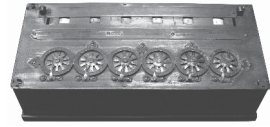
1. The earliest device that qualifies as a digital computer is the 'ABACUS'. It was developed about 5000 years ago in China. This device allows the user to represent numbers by the position of beads on a rack. Simply addition and subtraction can be carried out rapidly and efficiently by positioning the beads on the rack appropriately.

Abacus
2. Charles Babbage is known as the ' Father of computers'. He invented difference engine.
3. Instead of using individual transistors, the computers made in the third generation used integrated circuits technology. As compared to second-generation computers, 3rd generation computers were cheaper in price, smaller in size, less heavy in weight, faster in speed and more efficient.



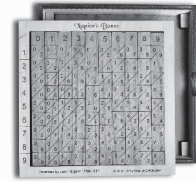
Abacus

4. (a) **Pascaline** : The first calculator was invented by **Blaise Pascal** in 1642. It was called Pascaline. With the help of this machine, one could perform addition and subtraction only. It was a rectangular box with wheels.



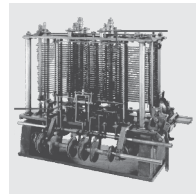
Pascaline

- (b) **Napier Bones** : In 1614, Sir John Napier invented a calculating device called Napier's Bones. It was made with a set of rectangular rods. One could perform multiplication and division besides, addition and subtraction with this device.



Napier's Bones

- (c) **Analytical Engine** : The analytical engine was a proposed digital mechanical general-purpose computer designed by English mathematician and computer pioneer Charles Babbage. It was first described in 1837 as the successor to Babbage's difference engine, which was a design for a simpler mechanical calculator.



Analytical Engine

(d) **Fifth Generation Computers :**

- These computers are still being developed.
- They have very high storage capacity, speed, and efficiency.
- Computers of this generation are often called **supercomputers**.
- Computers are being developed in such a way that they can think on their own, like human beings do. This is called **artificial intelligence**. Robots work on this technology.

5.

- These computers are small in size and cost less.
- They are usually designed for personal use, therefore, they are also called **Personal Computers**.
- They are designed for use by a single user at a time.



Desktop

- They are mainly used in homes, schools, offices, banks, etc. These computers are given different names according to their usage as Desktop computers, Laptops and Tablet.

Fun Activity

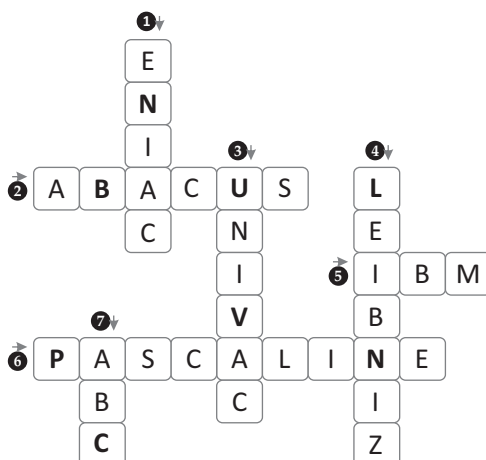


- Which generation of computers is the best according to you. Write four points in favour of your argument.

Best generation of computer is Fifth Generation

- These computers are still being developed.
- They have very high storage capacity, speed, and efficiency.
- Computers of this generation are often called **supercomputers**.
- Computers are being developed in such a way that they can think on their own, like human beings do. This is called **artificial intelligence**. Robots work on this technology.

- Solve the crossword puzzle with the help of the hints given below.



HOTS



The belief that Artificial Intelligence (AI) can or soon will match human intelligence, known as Artificial General Intelligence (AGI), is a common misconception. In reality, the capabilities of AI and human intelligence are distinct, each with its own strengths and weaknesses.



Let's Do This

A. Multiple Choice Questions.

1. (c) 2. (a) 3. (c) 4. (b)

B. State true 'T' or false 'F'.

1. T 2. F 3. F 4. T 5. T

C. Fill in the blanks.

1. Insert 2. Orientation 3. Shapes
4. Toggle 5. Indentation

D. Write one word for the following.

1. Shapes 2. Find 3. Header 4. Footer 5. Indentation

E. Answer the following questions.

1. Adding pictures to the document helps you illustrate the information in a better way. Word allows you to add pictures from your computer or the web directly into your document.

See topic 'Inserting Online Pictures' on book page no- 15.

2. **Header** is the top margin area of the document.

Follow the given steps for inserting header:

Step 1 : Click on **Insert** tab.

Step 2 : Click on the **Header** button.

Step 3 : A list of header styles, will appear. Select the required header style.

3. The **Find** command in MS-Word is used to find or search a particular word or text in a document.

To find text in a document, follow the given steps:

Step 1 : Click on the **Home** tab. and then, click on the **Find** in **Editing** group. A drop-down menu displays.

Step 2 : Click on **Find** option. The **Navigation** pane appears on the left side.

Step 3 : Type a word in the search box. The word (searched) gets highlighted.

4. The page orientation is the property to set the printing direction of text.

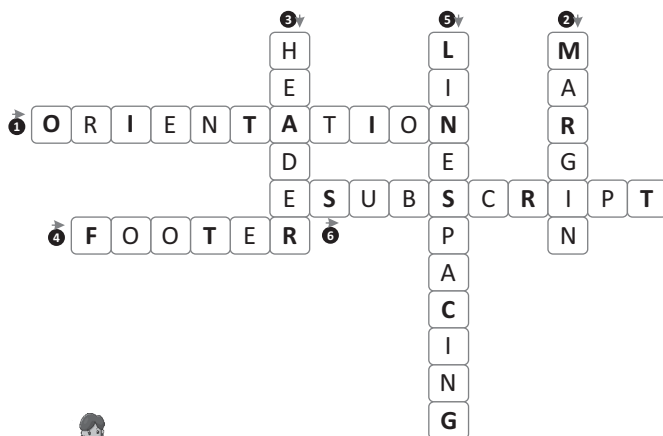
The two kinds of page orientation in Word are as follows.

- (a) Portrait (the default one) (b) Landscape

The only difference between the two orientations is that in portrait, the page height is more than the page width and in landscape, the page height is lesser than the page width.

5. See topic 'Inserting Columns Break' on book page no- 19.

Fun Activity



HOTS



Shobhit should use insert column, column break and line spacing features.

3

Creating Tables and Mail Merge in MS-Word 2016



Let's Do This

A. Multiple Choice Questions.

1. (c) 2. (a) 3. (b) 4. (a) 5. (b)

B. State true 'T' or false 'F'.

1. T 2. T 3. F 4. T

C. Fill in the blanks.

1. Shift
2. Column
3. Design
4. Mail Merge
5. splitting

D. Match the following.

1. (b)
2. (c)
3. (d)
4. (a)

E. Answer the following questions.

1. A table is a grid of cells arranged in rows and columns. It is very useful in organising and representing the data in an effective manner.
2. See topic 'Inserting Rows/Columns' on book page no- 29.
3. The **Mail Merge** feature in Word provides you with a tool to create and send multiple letters and invitations to many people at the same time. Each letter or invite is addressed to different people but has the same text.
4. See topic 'Applying Shading' on book page no- 28.
5. A Data Source is a file that contains the information to be merged with the Main Document, such as names and addresses. The data source contains the details of all the people to whom the letter will be sent.

Fun Activity



1. Do yourself.
- 2.

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

HOTS



On the layout tab, in the Cell Size group, click in the Table Row Height box or Table Column Width, and then specify the height or width you want.

or

Bring your mouse pointer over the table which you want to resize. A small resize icon will appear at the bottom-right corner of the table. Bring the mouse pointer over the Resize icon press the left mouse button and drag the table to make it shorter or larger.



Let's Do This

A. Multiple Choice Questions.

1. (b) 2. (c) 3. (a) 4. (b)

B. State true 'T' or false 'F'.

1. T 2. T 3. F 4. T 5. F

C. Fill in the blanks.

1. F5 2. Animation 3. variants
4. Normal view 5. whooshing star

D. Answer the following questions.

1. Themes are an inbuilt feature that offers a quick way of changing the layout and background design of the presentation that has been created. Each theme has its own set of colors, fonts and effects.

The steps to apply slide themes are as follows.

Step 1 : Click on the **Design** tab. A number of themes appears.

Step 2 : In **Themes** group, click on the drop-down arrow to see more themes.

Step 3 : Select the desired theme. The theme will be applied to all the slides of a presentation.

2. See topic 'Views of PowerPoint' on book page no- 39.
3. Slide Master sets the default layout and formatting for all other slides. It actually controls an entire presentation. Any changes made in the Slide Master Page automatically reflects on every slide in the presentation. Slide Master are commonly used for :
- Modifying and customising the background of all slides at the same time.
 - Rearranging the placeholders of all slides at the same time.
 - Editing and text formatting such as font, font color, etc., of all slides at the same time.
4. See topic 'Changing The Background' on book page no- 42.
5. To remove an animation, click on the number to remove. The number box gets highlighted. Press the **Delete** key.

You can also remove an animation effect from the **Animation Pane**. Just click on an effect and press the **Delete** key. The animation effect is removed.

Fun Activity



See topic 'Recalling MS PowerPoint 2016 Interface' on book page no- 37.

HOTS



See topic 'Slide Transition' on book page no- 44.



Introduction to Excel 2016



Let's Do This

A. Multiple Choice Questions.

1. (b)
2. (b)
3. (c)
4. (a)

B. State true 'T' or false 'F'.

1. T
2. F
3. T
4. T

C. Fill in the blanks.

1. Title bar
2. Book 1
3. Three
4. Workbook

D. Answer the following questions.

1. To start Excel, follow the steps given below.

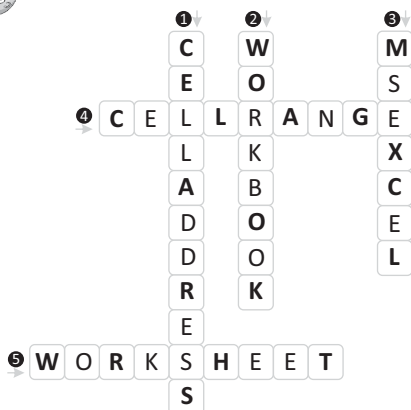
Step 1 : Click on the **Start** button.

Step 2 : Click on the **Excel 2016** option.

Step 3 : Click on **Blank workbook** option. A blank Excel worksheet opens.

2. A cell marked with a dark border is called an **active cell**. A cell is activated by clicking on it to insert the data. In short, an active cell indicates the insertion point to enter the data into cell. When we enter data, it is reflected in the active cell only.
3. A worksheet is a single sheet within a workbook. A worksheet is made up of rows and columns that intersect to create cells. While a workbook is an Excel file that contains one or more worksheets.
4. See topic 'Renaming a Worksheet' on book page no- 55.
5. See topic 'Closing A Workbook' on book page no- 58.

Fun Activity



HOTS



Cut : Ctrl+X, Paste : Ctrl+V

6

Conditional Blocks in Scratch



Let's Do This

A. Multiple Choice Questions.

1. (c)
2. (a)
3. (c)
4. (b)
5. (a)

B. State true 'T' or false 'F'.

1. T
2. F
3. T
4. F
5. T

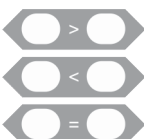


C. Fill in the blanks.

1. Hat
2. Operators
3. sensing
4. Variables
5. ask

D. Answer the following questions.

1. Scratch conditional statements determine whether a boolean condition supplied by the programmer is true or false. They enable you to compare a variable to another variable or test a variable against a value, allowing you to control how the program behaves depending on whether the condition is satisfied or not.

2. Hat, Stack, Boolean, Reporter, C and Cap.
3. Sensing blocks in Scratch sense the input from the keyboard or the mouse at the time of execution of a script. They are color-coded light-blue, and are used to detect things. They can be used to determine the location of the mouse pointer, its distance from other sprites, and whether a sprite is touching another sprite.
4. In scratch, variables can be used to store data such as numbers, strings, or Boolean values, and can be accessed from any sprite in your project. In Scratch, there are three types of variables :
 - (i) **Global Variables** : Global variables are accessible throughout the entire program. Once created, they can be used in any block or script.
 - (ii) **Local Variables** : Local variables are only accessible within a specific block or script. They are created and used within the block or script, and they cannot be accessed outside of it.
 - (iii) **Sprite Variable** : Sprite variables are specific to a particular sprite in the scratch project. They can store information about the sprite's position, size, direction, and other properties.

5.  Greater than
 less than
 equal to

Fun Activity



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

HOTS



play sound pop until done



Learning About Artificial Intelligence



Let's Do This

A. Multiple Choice Questions.

1. (c) 2. (c) 3. (c) 4. (a) 5. (c)

B. State true 'T' or false 'F'.

1. T 2. F 3. T 4. T 5. F

C. Fill in the blanks.

1. Artificial Intelligence 2. Chatbots
3. Siri, Google Assistant and Cortana 4. Teslabot
5. Entertainment

D. Answer the following questions.

1. See topic 'Importance of Artificial Intelligence' on book page no- 71.
2. **Super AI** is a level of Intelligence of **Systems** at which machines could surpass human intelligence, and can perform any task better than human with cognitive properties. It is an outcome of general AI. Some key characteristics of strong AI include capability include the ability to think, to reason, solve the puzzle, make judgments, plan, learn, and communicate by its own.

3.	General AI	Narrow AI
	General AI is a type of intelligence which could perform any intellectual task with efficiency like a human. The idea behind the general AI to make such a system which could be smarter and think like a human by its own.	Narrow AI is a type of AI which is able to perform a dedicated task with intelligence. The most common and currently available AI is Narrow AI in the world of Artificial Intelligence. Narrow AI cannot perform beyond its field or limitations, as it is only trained for one specific task. Hence it is also termed as weak AI.

4. Tic-Tac-Toe and F.E.A.R

5. Advantages of Artificial Intelligence

Following are some main advantages of Artificial Intelligence:

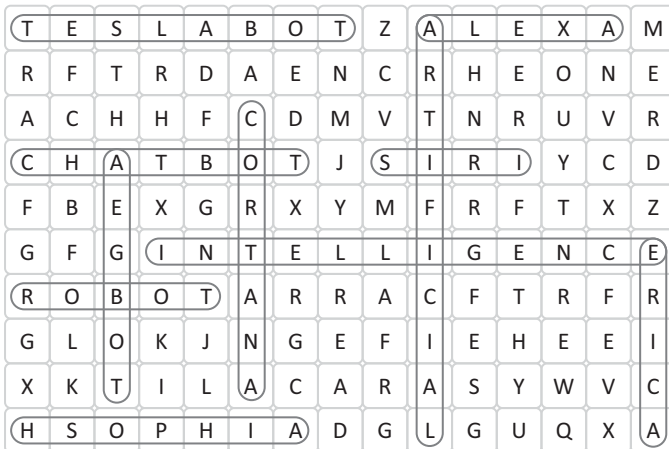
- **High Accuracy with less errors:** AI machines or systems are prone to less errors and high accuracy as it takes decisions as per pre-experience or information.

- **High-Speed:** AI systems can be of very high-speed and fast-decision making, because of that AI systems can beat a chess champion in the Chess game.

Disadvantages of Artificial Intelligence

- **Can't think out of the box:** Even we are making smarter machines with AI, but still they cannot work out of the box, as the robot will only do that work for which they are trained, or programmed.
- **No feelings and emotions:** AI machines can be an outstanding performer, but still it does not have the feeling so it cannot make any kind of emotional attachment with human, and may sometime be harmful for users if the proper care is not taken.

Fun Activity



HOTS



Unemployment, make humans lazy, lack creative ability, absence of emotional range.

8

Electronic Mail : E-mail



Let's Do This

A. Multiple Choice Questions.

- (c)
- (a)
- (c)
- (a)
- (a)

B. State true 'T' or false 'F'.

1. T 2. T 3. T 4. F 5. F

C. Fill in the blanks.

1. Internet 2. Hotspots 3. @ 4. To 5. Bcc

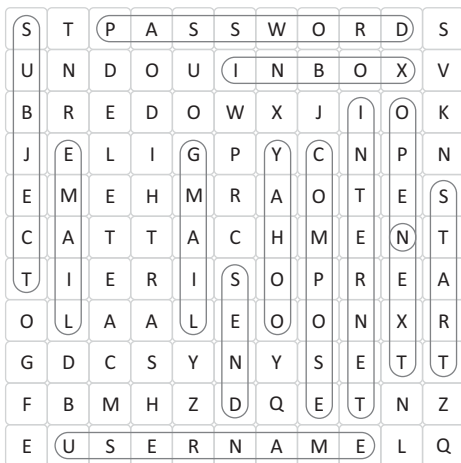
D. Answer the following questions.

1. Mobile device use cellular signals coming from the nearest cell towers to access the internet. On the other hand, Wireless networks use radio frequency waves to provide internet access.
2. See topic 'E-mail' on book page no- 82 and 'Advantages of E-mail' on book page no- 83.
3. See topic 'E-MAILADDRESS' on book page no-83.
4. To exit your Gmail account, follow the steps given below.

Step 1 : Click on the **Account** icon. A small window appears.

Step 2 : Click on the **Sign out** button. You will be signed out of your Gmail account.

Fun Activity



HOTS



Downloading means receiving data or a file from the internet on your computer. Uploading means sending data or a file from your computer to somewhere on the internet.