ANSWER KEY

PLUS Ver. 4.0

1. Data Storage and Memory

Take Off (Page no. 11)

 ✓

 ✓

 ○

 ○

 ✓

Double Tap (Page no. 13)

1. Memory
2. Permanent
3. Pen Drive

Choose the correct option.

1. c.   2. a.   3. c.   4. d.

Fill in the blanks with the correct words.

1. USB   2. Byte   3. Hard disk   4. Zettabyte

✅ Answer the following questions:

1. The storage space in a computer is called memory.
2. Secondary memory is permanent in nature and is not directly accessed by the CPU. It allows users to store data that may be easily retrieved.
3. Hard disk is permanently fixed in the CPU Box. The most important function of the hard disk is to store program files and data files.

   Pen drive is a portable storage device and is easy to use as it is small and can be carried in a pocket and plugged into any computer with a USB drive.
4. RAM is a temporary memory. The information stored in this memory is lost when the computer is turned off. That's why it is also called volatile memory whereas ROM is the permanent memory, i.e. it holds the data even if the system is switched off. It holds the starting instructions that are required to start a computer. It is also called non-volatile memory.

🧠 Scratch Your Brain.

1.

| Hard Disk | Compact Disk | Pen Drive | Memory Card |

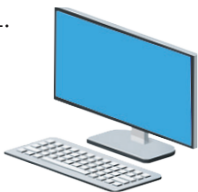2. Competency-based/Application-based questions:
   a. Memory Card
   b. (iii)

2. Managing Files and Folders in Windows 10

🐦 **Take Off** (Page no. 18)

1. This PC 2. Folder 3. Start Button 4. Recycle Bin

Double Tap

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

Choose the correct option.

1. d.   2. a.   3. b.   4. a.

Fill in the blanks with the correct words.

1. Live   2. This PC   3. Two   4. Thumbnail

Tick (✓) the correct statements and cross (✗) the wrong ones.

1. ✗   2. ✓   3. ✓   4. ✓

Answer the following questions:

1. In the left pane it displays an alphabetical list of all the programs installed on your computer. In the right pane it contains tiles.

2. A folder is like a file cabinet in which you can keep your files. In other words, a folder is a collection of files..

3. Step 1: Open File Explorer and browse to the location where you want to create a new folder.

   Step 2: Click on the Home tab.

   Step 3: Click on the New folder option.

   Step 4: Type the name of the New folder and press the Enter key.

4. A file is a collection of data and information, stored on a storage device such as hard disk, pen drive, CD/ DVD.

   Step 1: Browse to the location of the file or folder you want to move.

   Step 2: Select the file or folder to be moved.

   Step 3: Click on Home tab.

   Step 4: Click on Cut command.

   Step 5: Select the destination location where you want to move the file or folder.

   Step 6: Click on Paste command.

Scratch Your Brain.

1. a. Window key + E

   b. Select file/ folder then press F2

   c. Ctrl + C

   d. Ctrl + V

2. Competency-based/Application-based questions:

   a. Recycle Bin

   b. Start, Live

3. More on Word 2019

Take Off (Page no. 31)

Do it yourself

Double Tap (Page no. 38)

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

Choose the correct option.

1. c.   2. d.   3. d.   4. a.

Fill in the blanks with the correct words.

1. Columns   2. Pictures   3. Insert   4. Merge Cells

Tick (✓) the correct statements and cross (✗) the wrong ones.

1. ✗   2. ✓   3. ✗   4. ✗   5. ✗

Answer the following questions:

1. The Shapes command is used to draw shapes, it has different categories of shapes, like Lines, Rectangles, Basic Shapes, Block Arrows, Flowchart, Stars and Banners, and Callouts.
2. WordArt is a special effect in Word to change the appearance of the text.
3. Step 1: Click on the Insert tab.
   Step 2: Click on the drop-down arrow and select Online Pictures option.
   Step 3: Type a word in Bing Image Search box.
   Step 4: Select the picture you want to insert.
   Step 5: Click on the Insert (1) button.
4. Step 1: Select the rows or columns which you want to delete from the table.
   Step 2: Click on Layout tab.
   Step 3: Click on Delete drop-down arrow.
   Step 4: Select the desired option.

Scratch Your Brain.

1. a. Top Left alignment
   b. Top Center alignment
   c. Top Right alignment
2. Competency-based/Application-based questions:
   a. Step 1: Click on the Insert tab.
      Step 2: Click on the drop-down arrow and select This Device option.
      Step 3: Browse to the location of the screenshot
      Step 4: Select the screenshot
      Step 5: Click on Insert button
   b. Insert tab, Pictures command

Periodic Assessment–1

(Based on chapters 1 to 3)

A. 1. MEMORY   2. FOLDER   3. FILE EXPLORER
     4. RECYCLE BIN   5. COMPACT DISK

B. 1. Table   2. Delete a Table   3. Word File   4. RAM   5. Folder
     6. ROM   7. Memory Card   8. Music File

C. 1. File   2. Start Menu   3. This PC   4. Recycle Bin   5. Taskbar

4. Introduction to PowerPoint 2019

Take Off (Page no. 46)

Do it yourself.

Double Tap (Page no. 50)

1. Control Button
2. Text Placeholder
3. Speaker's Notes Pane

Double Tap (Page no. 55)

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

Choose the correct option.

1. a.   2. d.   3. b.   4. d.

Fill in the blanks with the correct words.

1. Backstage   2. Title bar   3. Slide Show   4. Slide area   5. Insert

Match the following:

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

Tick (✓) the correct statements and cross (✗) the wrong ones.

1. ✗   2. ✓   3. ✗   4. ✗   5. ✗

Answer the following questions:

1. A presentation is made up of a series of slides. A single page of the presentation is called a slide.
2. The Placeholder is a dotted box on a slide which may contain text, pictures, video, etc.

3. A slide layout is the formatting and positioning of the placeholder boxes that appears on a slide. There are Nine slide layouts available in Power Point such as Title slide, Title and Content, Section Header, Two Content, Comparison, Title only, Blank, Content with Caption and Picture with Caption.

4. Slide Sorter View

   a. It shows the miniature version of all slides.

   b. The advantage of this view is that you can see more number of slides on the screen and you can move, delete, edit and recognise these slides with greater ease.

   Reading View

   a. It is used when you want to view a presentation not in full screen but in a window with simple controls that make the presentation easy to review.

   b. The ribbon and the Slides/Outline pane are not visible.

5. Step 1: Click on the Insert tab.

   Step 2: Select SmartArt option.

   Step 3: Choose desired category.

   Step 4: Choose a graphic layout.

   Step 5: Click on the OK button.

   Step 6: Click on [Text] in each individual shape and type the desired text.

Scratch Your Brain.

1. a. SLIDE   b. PRESENTATION   c. BACKSTAGE

   d. PLACEHOLDER e. SMARTART

2. Competency-based/Application-based questions:

   a. SmartArt

   b. Abhilaksh can insert SmartArt.

5. Using a Browser

Take Off (Page no. 62)

1. Search information ✓
2. Chat online ✓
3. Sleep ◯
4. Buy a mobile phone ✓
5. Send and receive e-mail ✓
6. Take a bath ◯
7. Watch a cartoon movie ✓
8. Pack your bag ◯

Double Tap (Page no. 64)

1. Refresh   2. New Tab   3. Microsoft Edge   4. Favorites

Choose the correct option.

1. b.   2. d.   3. c.   4. d.

Fill in the blanks with the correct words.

1. Internet   2. Microsoft Edge   3. Home page   4. Refresh

Tick (✓) the correct statements and cross (✗) the wrong ones.

1. ✓   2. ✗   3. ✗   4. ✓

Answer the following questions:

1. Search engine is a web tool which allows user to search or look up for desired information of the Internet.
2. Downloading is the process of transferring data from a server (the Internet) to a client computer (the user's computer), whereas Uploading is the process of moving data from your computer (the computer of the user) to a server through the internet.
3. Microsoft Edge is the default web browser in the Windows 10 operating system. Current Tab, Address Bar, New Tab.
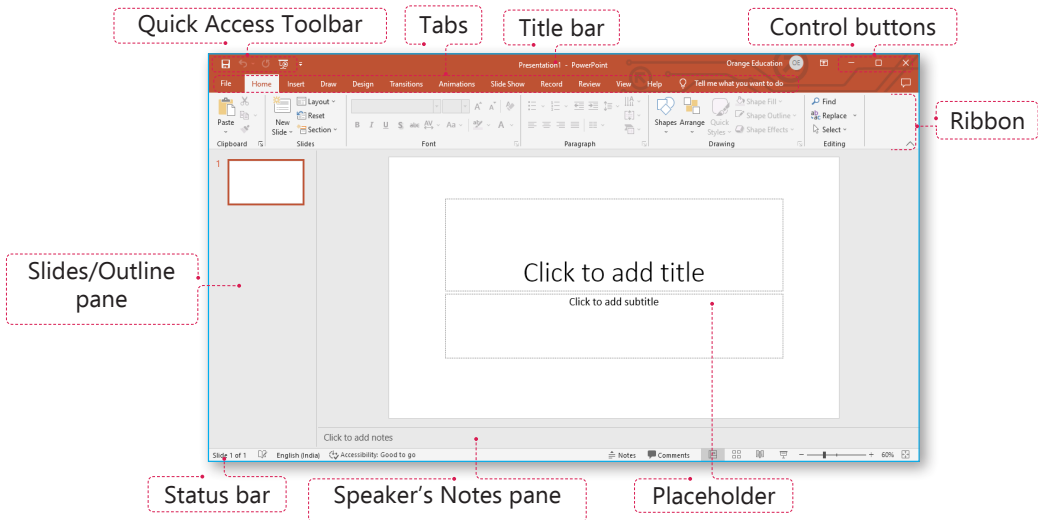
Scratch Your Brain.

1. Do it yourself.
2. Competency-based/Application-based questions:
   a. Voice search
   b. Address bar

Periodic Assessment–2

(Based on chapters 4 & 5)

A. 1. Slide Layout

2. Speaker's notes pane

3. Reading view

4. Backstage

B. [This labeling was printed incorrectly, please correct it in your textbooks.]

Quick Access Toolbar   Tabs   Title bar   Control buttons   Ribbon   Slides/Outline pane   Status bar   Speaker's Notes pane   Placeholder

C. 1. ✓ 　　　　2. ✕ 　　　　3. ✓ 　　　　4. ✓

Test Sheet–1

(Based on chapters 1 to 5)

A.
| 1. c. | 2. b. | 3. b. | 4. b. | 5. c. | 6. a. |
| 7. d. | 8. c. | 9. c. | 10. a. | 11. b. | 12. d. |

B. 1. Columns 2. Status bar 3. Down 4. Pictures 5. Slide area 6. Refresh

B. 1. ✕ 　　　　2. ✕ 　　　　3. ✕ 　　　　4. ✓

D. 1. d. 　　　2. c. 　　　3. a. 　　　4. b.

E. 1. A collection of related files is called a folder.

2. The intersection of a row and a column called Cell.

3. A presentation is made up of a series of slides. A single page of the presentation is called a slide.

4. Placeholder is a dotted box on a slide which may contain text, pictures, video, etc.

5. WordArt is a special effect in Word to change the appearance of the text.

6. The steps to change the row height in a table are:

a. Select the rows or columns.

b. Click on Layout tab.

c. Change the height and width of cells from the Height and Width Scroll box.

7. The basic unit for measuring the memory of a computer is byte. A byte consists of a group of eight bits, for example, 10001011, i.e. 1 byte equals to 8 bits. A group of 4 bits is known as a nibble (half byte), for example, 1001, i.e. 1 nibble equals to 4 bits.

8. Slide layout is the formatting and positioning of the placeholder boxes for the content that appears on a slide. Their are Nine Slide layout Title Slide, Title and Content, Section Header, Two Content, Comparison, Title Only, Blank, Content with Caption, and Picture with Caption.

6. Visual Processing

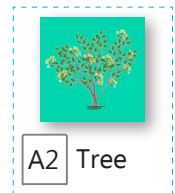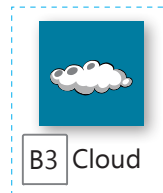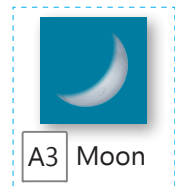**Take Off** (Page no. 76)

1.   1

2.   2

3.   3

4.   4

5.   5

1. d.   2. c.   3. b.

4. e.   5. a.

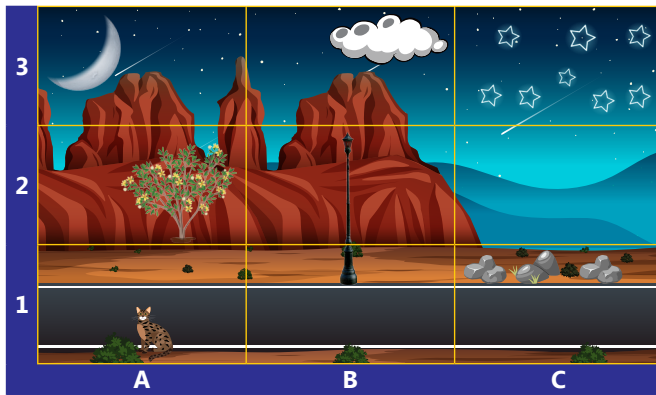| | A1 | Cat |
	A3	Moon
	B3	Cloud
	A2	Tree
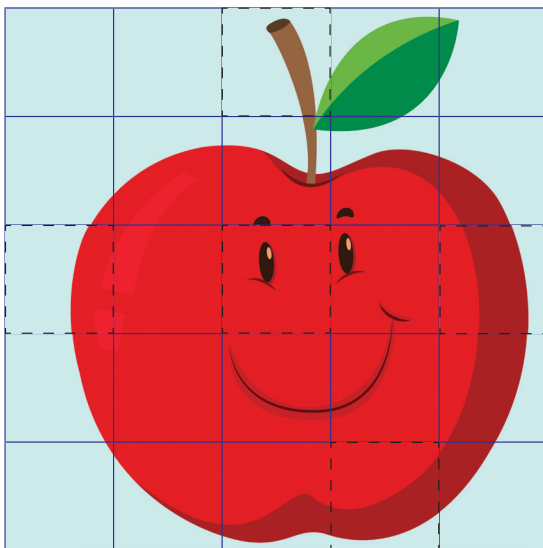
Choose the correct option.

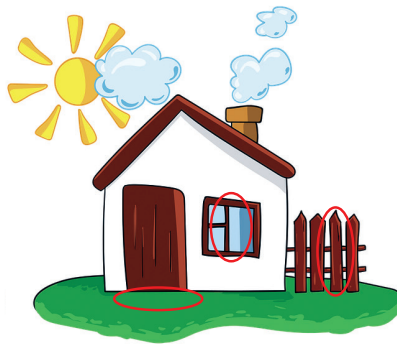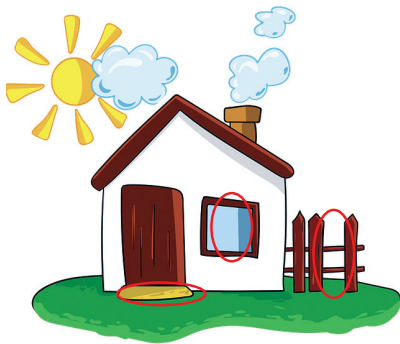1. d.   2. a.   3. a.

Answer the following questions:

1. Picture Puzzle is a type of visual activity that involve a series of pictures that are interpreted.
2. When a shape looks exactly the same to its original shape after being flipped or turned, it is called a mirror image.

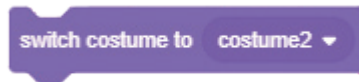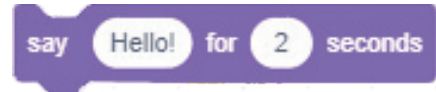## Scratch Your Brain.

1. Do it yourself
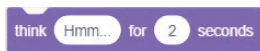2.

7. More Blocks in Scratch

Take Off (Page no. 83)

when 🚩 clicked — ✗

go to random position ▾ — ✗

say Hello! for 2 seconds — ✓

move 10 steps — ✓

switch costume to costume2 ▾ — ✗

when space ▾ key pressed — ✗

Double Tap (Page no. 85)

5. think Hmm... for 2 seconds
3. say Who. for 2 seconds
4. say You can speak owl language? for 2 seconds
1. say Knock knock! for 2 seconds
2. say Who's there? for 2 seconds
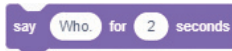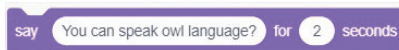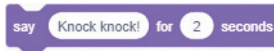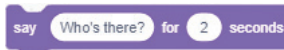
Choose the correct option.

1. a.   2. d.   3. a.   4. a.

Fill in the blanks with the correct words.

1. Say   2. Go to   3. Sound   4. Move

✓✗ Tick (✓) the correct statements and cross (✗) the wrong ones.

1. ✗   2. ✓   3. ✗   4. ✗

🅀🄰 Answer the following questions:

1. a. Stage area
   b. Backdrop
2. The blocks that are used to control the movement of a sprite are know as Motion blocks.
3. The blocks that are used to control how the blocks in a script will start to run if a particular action is done are known as Events blocks.
4. [This question was printed incorrectly in the book. Please correct it in your textbook]

   Question: How can you determine the sprite's position?

   Ans. The sprite's position is determined when the stage is divided into different values of x and y. Each dot on the stage is made up of both x and y values. The value of x gives the horizontal (left to right) location of the sprite. The value of y gives the vertical (top-to-bottom) location of the sprite.

🧠 Scratch Your Brain.

1.

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

2. Competency-based/Application-based questions:
   a. Sound Blocks
   b. Add sound blocks

8. Creating Shapes in Scratch

Take Off (Page no. 92)

1. Sprite   2. Stop button   3. Backdrop

Double Tap (Page no. 94)

1. Heptagon   2. Triangle   3. Pentagon   4. Nonagon
5. Hexagon   6. Octagon

Choose the correct option.

1. b.   2. c.

[This question was printed incorrectly in the book. Please correct it in your textbook]

3. **Question:** Which block is a part of the pen blocks category?

a. `go to x: -100 y: -34`   b. `say Hello! for 2 seconds`

c. `pen up`   d. `when space key pressed`

Ans. c.

Fill in the blanks with the correct words.

1. Polygon   2. 360   3. Go   4. Hexagon

Answer the following questions:

1. Pen block is used to draw a trail as the sprite moves on the stage .You can change the colour of the pen.

2. Polygons are 2D shapes with three or more straight lines and angles.

3.

Scratch Your Brain.

1. a. Sides   3
     Degree   120
   b. Sides   4
     Degree   90
   c. Sides   5
     Degree   72
   d. Sides   6
     Degree   60

2. Competency-based/Application-based questions:

   a. She can use Stamp Block

   b. Repeat 9 Move 100 steps Turn 40 degrees

Periodic Assessment–3
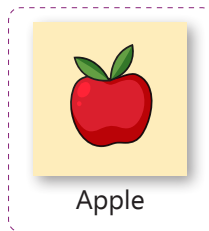
(Based on chapters 6 to 8)

A. Do it yourself

B.

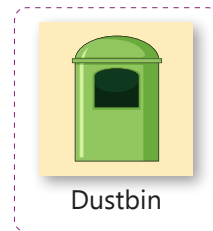| Bush	Apple	Dustbin
B2	B3	A2

C. a. This block will set the pen colour, saturation, brightness and transparency to the given value.

   b. This block creates a duplicate of the current sprite. To see the image, click on the sprite and drag.

   c. This block changes the pen colour, saturation, brightness and transparency.

9. Google Blockly Games

Take Off (Page no. 100)

1. Move the object in the forward direction from the direction it is facing.

2. Turn the object in the left direction from the direction it is facing.

Double Tap (Page no. 100)

1. `heading 90°`   2. `does not have worm`   3. Bird game

Choose the correct option.

1. b.   2. c.   3. b.   4. b.

Fill in the blanks with the correct words.

1. Turtle   2. Loops   3. Turn...by   4. Run Program

Tick (✓) the correct statements and cross (✗) the wrong ones.

1. ✓   2. ✓   3. ✗   4. ✓

Answer the following questions:

1. Heading Block
   If do else Block
2. If the bird does not reach to the desalination then run program button will change in to Reset button and to do it again click on the reset button.
3.

   Step 1: Drag the following blocks and change required value to draw a square.
   Step 2: Click on Run Program button.

Scratch Your Brain.

1. a. This block turns the object in the left direction from the direction it is facing.
   b. This block allows the bird to fly in one direction till the condition is true, and it changes direction when the condition becomes false.
2. Competency-based/Application-based questions:
   a. (ii)
   b. Turtle Game

10. Evolution of AI

Take Off (Page no. 108)

1. Smartphone   2. Smartwatch   3. Smart Speaker

Double Tap (Page no. 111)

1. WABOT   2. ASIMO

Choose the correct option.

1. a.   2. b.   3. d.   4. a.

Tick (✓) the correct statements and cross (✗) the wrong ones.

1. ✗   2. ✓   3. ✗   4. ✓

Answer the following questions:

1. Artificial Intelligence is the ability of a machine to think and learn.
2. In 1950, Alan Turing submitted a paper about the possibility of creating machine that would think. This became a test for machines to check their thinking capability. One of the greatest achievements of Alan Turing is the creation of Bombe, a machine that could decode encoded messages.
3. Roomba, an autonomous robot vacuum cleaner that cleans and is able to avoid crashing into obstacles.
4. In 2016, David Hanson created a humanoid named Sophia. She can copy human gestures and facial expressions.

Scratch Your Brain.

1. a. ALAN TURING   b. WABOT   c. ROOMBA
    d. SOPHIA   e. CORTANA
2. Competency-based/Application-based questions:
    a. (iii)
    b. Google home

Periodic Assessment–4

(Based on chapters 9 & 10)

A. 1. This block turns the object in the left direction from the direction it is facing.

2. This block allows the bird to fly in one direction till the condition is true, and it changes direction when the condition becomes false.

3. The condition allows the bird to move in the direction in do section of the block till the condition is true otherwise move in the direction in the else section of the block when the condition becomes false.

4. The move...by block is used to make the turtle move the forward or backward to draw the shape.

5. The repeat...times do block to make the turtle repeat tasks given inside the block for given number of times.

B. 1. iii.   2. i.   3. v.   4. ii.   5. iv.

Test Sheet–2

(Based on chapters 6 to 10)

A. 1. d.   2. d.   3. a.   4. a.   5. c.

6. b.   7. b.   8. a.   9. a.   10. a.

11. b.   12. b.

B. 1. John McCarthy   2. Polygon   3. 360   4. Go to   5. Bombe

C. **Tick (✓) the correct statements and cross (×) the wrong ones.**

1. [This question was printed incorrectly in the book. Please correct it in your textbook]

Question: Picture Puzzle is a type of visual activity that involve a series of pictures that are interpreted.

Ans. ✓

2. ×

3. [This question was printed incorrectly in the book. Please correct it in your textbook]

Question: Kismet was developed in year 2000.

Ans. ✓

4. ✓

D. 1. c.   2. a.   3. d.   4. b.

E. 1. Artificial Intelligence is the ability of a machine to think and learn.

2. In 1950, Alan Turing submitted a paper about the possibility of creating machine that would think. This became a test for machines to check their thinking capability. One of the greatest achievements of Alan Turing is the creation of Bombe, a machine that could decode encoded messages.

3. Visual Processing

4. Control Block

5. Pen block is used to draw a trail as the sprite moves on the stage .You can change the colour of the pen.

6. To draw a square we can keep the value of the move block same but to draw a rectangle there will be 2 different values for the move block since there are two different values for sides of rectangle i.e., length and breadth.

7. When a shape looks exactly the same to its original shape after being flipped or turned, it is called a mirror image.

8. If the bird does not reach to the desalination then run program button will change in to Reset button and to do it again click on the reset button.