

1. Computer Memory

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1. a. (iii) b. (iv) c. (ii) d. (i) e. (iii)
2. a. SSD b. Optical c. Secondary memory
d. Universal Serial Bus (USB) e. 700MB
3. a. T b. F c. T d. F e. T
4. a. ROM b. USB port c. Cloud storage d. Bit e. DVD-R
5. a. The entered input and received output are stored inside a memory is called computer memory.
b. SSDs are faster, more durable, reliable and use flash memory, unlike traditional hard disks.
c. A bit is a single binary digit (0 or 1), while a nibble is a group of 4 bits (half a byte).
d. A hard disk is used to store data and information permanently. It is the main secondary storage device in a computer.
e. Volatile memory refers to memory (like RAM) that loses its stored data when the computer is turned off.
6. a. Secondary memory, like a hard drive or external storage, is best because it can store large amounts of photos and videos permanently without losing data after shutdown.
b. The problem may be with RAM, which is temporary memory. He should save files properly to secondary storage or check if the computer's storage device is working correctly.



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2. Images and Objects in Word 2021

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- (iii)
 - (ii)
 - (i)
 - (ii)
 - (iv)
- Rotate
 - Shadowed
 - Wrap Text
 - Shape Format
 - WordArt
- F
 - T
 - F
 - T
 - F
- This Device
 - WordArt
 - Bing
 - Picture Effects
 - Rotate handles and Resize handles
- The "Stock Images" option insert Microsoft-provided images into your document.
 - WordArt feature enables creating stylish text effects unavailable with fonts.
 - Dragging pointer adds the selected shape into document area accurately.
 - Right-click shape option, select Add Text and then type desired text inside.
 - Type keywords in Bing Image Search box and then press Enter key.
- In Word 2021, go to the Insert tab, choose Shapes, add banners or callouts, then use Shape Format options to change colors, outlines and styles matching the report theme.
 - Editing in formatting means changing how text looks in a document, such as adjusting font style, size, color, alignment, spacing and layout to make the content clearer and attractive.



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3. Creating Tables in Word 2021

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- (iii)
 - (i)
 - (ii)
 - (iv)
 - (iii)
- Delete Column
 - Border
 - Alt + Home
 - Insert
 - Cell
- T
 - F
 - T
 - F
 - F
- Alt + End
 - Select Table
 - Tab
 - Merge Cells
 - Graphic grid



5.
 - a. A row is a horizontal arrangement of data and a column is a vertical arrangement of data.
 - b. Layout tab is used to merge selected cells together properly.
 - c. The Alt +Home key combination moves cursor to first cell of row.
 - d. Right-click a cell and choose Insert to add rows or columns.
 - e. Hover at the top of the column and click when the arrow appears.

Splitting cells	Merging cells
Divides one cell into multiple cells.	Combines two or more cells into one cell.
Split a cell into the required number of rows or columns.	Cells can be merged either column-wise or row-wise.

7.
 - a. The Table feature would be used to organise names and ages in rows and columns, keeping the guest list neat, clear and easy to read.
 - b. The table can be customised using table styles, borders, shading and bold headings to make ingredient measurements clear, attractive and simple to follow.



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4. Introduction to PowerPoint 2021

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1.
 - a. (ii)
 - b. (i)
 - c. (iii)
 - d. (iv)
 - e. (iii)
2.
 - a. Microsoft
 - b. Presentation
 - c. Commands
 - d. Save
 - e. Slides
3.
 - a. F
 - b. F
 - c. T
 - d. F
 - e. F
4.
 - a. Four types
 - b. Ribbon
 - c. Status bar
 - d. Slide
 - e. Normal View
5.
 - a. A placeholder is a dotted box on a slide that may contain text, pictures, video, etc.
 - b. Slide pane displays the thumbnails of all the slides we are working on.
 - c. Slide Show tab is used to start presentation viewing mode.
 - d. Type PowerPoint in the taskbar search box, open it and select Blank Presentation to begin creating a new presentation.
 - e. To exit PowerPoint 2021, click the Close button located at the top-right corner of the Title bar.

6. a. The steps to delete slides from presentation are as follows:

- 1 Click on the slide you want to delete.
- 2 Right-click on the selected slide.
- 3 Choose Delete Slide from the menu.

b. The steps to insert new slides into the presentation are:

- 1 Click on the Home tab.
- 2 Click on New Slide.
- 3 Choose the desired slide layout.



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5. More On PowerPoint 2021

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1. a. (ii) b. (i) c. (ii) d. (iv) e. (iii)
2. a. Backstage b. Layouts c. Home d. Presenter
e. Slide Show
3. a. F b. T c. T d. F e. F
4. a. Aman should choose the Variants option to slightly change the color style of the selected theme.
b. Ashwin should use Slide Show View to display slides with all applied effects.
c. Kavya should first open the Design tab and choose a suitable theme for her presentation background.
d. Ishaan can add notes in the Notes Pane below slides for presentation reference.
e. Priya should choose the Title and Content layout.
5. a. Samanvay should click on the Design tab to explore different design themes and apply attractive styles, colours, and backgrounds to make his presentation visually appealing.
b. To change the slide layout to Comparison Layout, follow the steps:
 - 1 Go to the "Home" tab.
 - 2 Click on the "Layout" button in the Slides group.
 - 3 A list of layout options will appear.
 - 4 Click on "Comparison" layout.



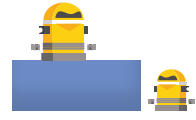


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6. Sketchpad Advanced Art Skills



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1. a. (iv) b. (i) c. (iii) d. (iii) e. (ii)
2. a. F b. T c. F d. F e. T
3. a. Mirror Brush b. Artwork c. Symmetrical d. Send Forwards e. Clipart
4. a. Layers are like clear, plastic sheets stacked one on top of the other in a drawing.
b. The two types of backgrounds are: Solid and Linear.
c. The Mirror Brush is a digital tool used to make symmetrical designs.
d. Eyeball icon is used to show or hide a layer.
e. The three options present in the Hamburger icon: Duplicate, Delete and Send to Back.
5. a. Nitin should use the Mirror tool in Sketchpad, which automatically reflects patterns from one side to the other, creating symmetrical designs.
b. Aditi can use the Arrange or Layer options to bring the element forward or send it backward, correcting the order without starting over.

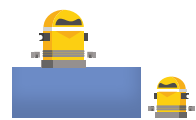


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7. Blocks in Scratch



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1. a. (ii) b. (iii) c. (ii) d. (i) e. (ii)
2. a. Four b. Sound c. Go to d. Say e. Size
3. a. T b. F c. T d. T e. F
4. a. (iii) b. (i) c. (iv) d. (ii)



5. a. Logical b. Scripts c. Purple d. Appearance e. Loops
6. a. By dragging sound blocks to play recorded voice or music.
b. Looks blocks change costumes, colours and display text in bubbles for a Sprite.
c. Looping blocks are important because they allow repeating actions multiple times automatically.
d. Operators blocks are light-green in colour.
e. Looks blocks are purple in colour and let you modify the sprite's costumes and colours.
7. a. if <score> 50> then → move 10 steps
b. Use the go to x: y: block
Set values as: x = 240, y = -180



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8. Drawing Shapes in Scratch

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1. a. (iii) b. (ii) c. (i) d. (iii) e. (iv)
2. a. Polygon b. Repeat c. Square d. Pen down e. Infinitely
3. a. T b. F c. T d. T e. F
4. a. To provide a trail for the sprite and draw shapes.
b. The Wait () seconds block helps slow down the script so movements are visible.
c. Sprite moves continuously round and round infinitely until user stops execution.
d. Use pen extension, repeat small moves and turns until the sprite completes a circle.
e. Clicking the "when clicked" block four times, the actions run four separate times independently.
5. a. Forever Block b. Pen Block c. Number of sides d. Add Extension e. Square
6. a. First stack of blocks draw a square and to draw a triangle we need to:
 - Change repeat 4 to repeat 3
 - Change turn 90 degrees to turn 120 degrees
 b. 45 degrees



9. Categories of Robots

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- (ii)
 - (iii)
 - (ii)
 - (iii)
 - (iv)
- F
 - F
 - T
 - F
 - T
- Human intervention
 - Tumors
 - Atlas
 - Prosthetic
 - Landmines
- Robots come in many shapes and sizes to carry out tasks in almost all sectors of life.
 - Tele-operated robots controlled remotely to simulate human activities and assist humans.
 - Autonomous robots use sensors to detect and adapt to environment changes.
 - Pre-programmed robots work in controlled environments with limited human interference.
 - "Palki" serves as a waitress, blending technology with Assamese tradition.
- Heartlander
 - Exoskeleton
 - Five
 - Wireless
 - Repetitive
- Augmenting robot like an exoskeleton can be used. It helps by enhancing the worker's strength and supporting physical movement.
 - I would recommend an autonomous robot like the Roomba vacuum cleaner. It works independently and helps clean the house without requiring physical effort.



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