

1. Innovators' World

ASSESS YOURSELF

1. a. (ii) b. (ii) c. (ii) d. (ii) e. (iii)
2. a. Internet b. Blockchain c. Virtual reality d. Block-based coding
e. E-banking
3. a. T b. F c. F d. F e. F
4. a. Innovation b. Google Drive c. Blockchain d. Augmented Reality
e. Apple App Store
5. a. E-commerce is the buying and selling of goods and services online. Some of the applications of E-commerce are E-Shopping, E-Banking and M-Commerce.
b. (i) Electronic Fund Transfer (EFT) is a way to send money online from one bank account to another.
(ii) Consumer-to-Consumer (C2C): This is when individuals sell products directly to other individuals. For example, websites like OLX and Quikr provide platforms where people can buy and sell items to each other.
c. The Internet of Things (IoT) connects everyday objects to the internet, making them smart. These objects can send and receive data, allowing them to work together and make decisions.
d. Mobile apps receive frequent updates to fix bugs, improve performance, add new features, and enhance security.
e. Augmented Reality is the blending of virtual world and real life where as in Virtual Reality, we create a virtual world that user can interact with.
6. a. Siddhartha can use E-banking or Digital Payments to transfer some money to his friend over the Internet.
b. Yes, Lata can use M-commerce by using mobile apps such as MakeMyTrip, Google Pay, or airline apps to book the ticket using her smartphone.



- 1. (b)
- 2. (c)

2. Windows 11 – Advanced Features

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- 1. a. (ii) b. (i) c. (ii) d. (iii) e. (iv)
- 2. a. Ribbon b. File Explorer c. Navigation Pane d. Disk Cleanup
e. Control Panel
- 3. a. F b. T c. T d. F e. T
- 4. a. Clock and Region b. System and Security
c. Disk Cleanup tool d. Hardware and Sound
- 5. a. File Explorer plays an important role in Windows 11. We can view files and folders in a hierarchical order. We can move, rename and delete files easily in File Explorer.
b. Address Bar displays the location of the hard drive that is currently being viewed within File Explorer.
c. Navigation Pane is usually present on the left side of the window depending on your computer's settings. It can be used to quickly jump between libraries and folders.
d. Two default folders in Windows 11 are Documents and Pictures.
e. Ribbon is located just below the Title bar.
- 6. a. Your friend should use the Clock and Region feature in the Control Panel to update the time zone on her computer.
b. I would suggest she use the Disk Cleanup tool to clean up and free up some of the space.



- a.
- b.
- c.



3. Formatting in PowerPoint

ASSESS YOURSELF

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|----------|--------|----------|---------|---------|
| a. (iii) | b. (i) | c. (iii) | d. (ii) | e. (ii) |
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|------------|---------------|----------------|-----------|-----------|
| a. Picture | b. Attractive | c. Combination | d. Insert | e. Shapes |
|------------|---------------|----------------|-----------|-----------|
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|------|------|------|------|------|
| a. T | b. F | c. T | d. T | e. F |
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|------------|---------------------|--------------------|---------------|-----------------------------|
| a. WordArt | b. Resizing handles | c. Rotation handle | d. Insert tab | e. Format Background option |
|------------|---------------------|--------------------|---------------|-----------------------------|
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|---|--|--|--|--|
| a. A pre-designed presentation with layouts, colours and fonts. | b. Click on Apply to All option to apply background on all slides. | c. WordArt is a text style that can be applied to the text to make a presentation more attractive. | d. Pictures can be inserted from This Device, Stock Images or Online Pictures. | e. Click the picture and drag rotation handle. |
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| a. You should use the Shapes tool, which is available under the Insert tab in PowerPoint. | b. You should use the Quick Styles command, which can be found under the Insert tab. |
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| a. DRAOBYEK | b. L |
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4. Animation and Transition in PowerPoint

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|---------|----------|---------|--------|----------|
| a. (ii) | b. (iii) | c. (iv) | d. (i) | e. (iii) |
|---------|----------|---------|--------|----------|
- | | | | | |
|----------|-------------|---------------|--------------|-----------|
| a. Right | b. SmartArt | c. Transition | d. Animation | e. Delete |
|----------|-------------|---------------|--------------|-----------|
- | | | | | |
|------|------|------|------|------|
| a. F | b. F | c. T | d. T | e. T |
|------|------|------|------|------|
- | | | | | |
|-----------|-----------------|-------------------|-----------|----------|
| a. Timing | b. Motion Paths | c. Animation Pane | d. Insert | e. Media |
|-----------|-----------------|-------------------|-----------|----------|
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|--|--|
| a. Animation is a visual effect that gives us the ability to move objects like text, pictures, charts, etc. in any direction in the slideshow. Animations can easily develop the interest of the audience. | b. To remove an animation, click on the number to remove. The number box gets highlighted. Press the Delete key. |
|--|--|



- c. On Mouse Click option allows advancing slides manually with a mouse click.
 - d. A SmartArt graphic lets us present data or information in the form of flowcharts and diagrams.
 - e. The three categories of transition effects in PowerPoint are Subtle, Exciting and Dynamic Content.
- 6.
- a. You should use the Animation feature in PowerPoint to add animations to your text and make your presentation more interesting.
 - b. You can use the Transition feature in PowerPoint to apply smooth effects when moving from one slide to the next.



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a.

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b.

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5. Excel 2021—An Introduction

ASSESS YOURSELF

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|----|---|-------------------------|-------------------|---------|---------|
| 1. | a. (ii) | b. (iii) | c. (i) | d. (iv) | e. (ii) |
| 2. | a. Cell | b. Quick Access Toolbar | c. Workbooks | | |
| | d. Active | e. Save | | | |
| 3. | a. F | b. T | c. F | d. F | e. T |
| 4. | a. File tab | b. Name Box | c. Blank workbook | | |
| | d. Bottom of the workbook window | | | | |
| 5. | a. Formula bar shows the content of the active cell. If a cell contains text or fixed number, the content in the formula bar is same as seen in the cell. | | | | |
| | b. Quick Access Toolbar provides shortcuts to a few commonly used commands like Save, Undo and Redo. | | | | |
| | c. An Excel organises data in rows and columns for better management. | | | | |
| | d. A Name Box displays the address of an active cell or a range of selected cells. | | | | |
| | e. You can add a new worksheet in a workbook by clicking on the plus sign (+) button. | | | | |



6. a. Rohan should look at the Formula Bar to view or edit the formula in a cell.
- b. Riya can click the plus sign (+) button to add a new worksheet to the existing workbook.



The filled cells form the letter: L

6. Editing in Excel 2021

ASSESS YOURSELF

1. a. (ii) b. (iii) c. (iv) d. (i) e. (ii)
2. a. Undo b. Redo c. Range d. Delete e. Autofill
3. a. T b. F c. F d. T e. T
4. a. F2 key b. Select All triangle c. Home tab d. Quick Access toolbar
e. Fill Handle
5. a. The Redo command is used to redo the last Undo action.
- b. To select a row, place the mouse pointer on the row header of the row to be selected. The mouse pointer will change to an arrow. Now click on the row header and the entire row gets selected.
- c. Autofill feature allows us to quickly fill cells with repetitive or sequential data. Data can be filled down in a column or across a row.
- d. To select a range of cell using the keyboard move the cursor on the first cell of the range by using the Arrow keys. Then, press the Shift key, and while keeping it pressed, use the Arrow keys to select the range of the cells.
- e. Right-click on the row or column number above or below where you want to add a new row and select the Insert option. Then, select the desired option.
6. a. Undo
- b. Use the AutoFill feature by typing 1 and 2, selecting both, and dragging the fill handle.



1. Lateral, Leader, Liberate, Lifeboat, Little, Literal.
2. LIST, LENT, LITE, SENT, LINES, TILE, LENS, NEST, NET, SIT, TEN, LIE, TIN, LET, SET, SITE.



7. Cyber Safety

ASSESS YOURSELF

- (ii)
 - (iv)
 - (iii)
 - (ii)
 - (iii)
- Internet
 - Norton
 - Self-propagating
 - File-infecting virus
 - Macro virus
- T
 - F
 - T
 - T
 - F
- Sending emails
 - Inbox
 - Subject
 - Username
 - Macro virus
- Malware is harmful software designed to damage your device or steal information.
 - Viruses can spread from one computer to another through downloads, email attachments or infected websites.
 - Two examples of boot sector viruses are Michelangelo and Stoned.
 - Trojan horses, once installed on a computer, allow unauthorised access to the computer, making it easier for it to be remotely controlled by someone else. This may lead to loss of personal data and confidential information.
 - An antivirus program detects the changes that a virus has caused in the computer. Antivirus detects the presence of a virus, warns us of the same and works to deactivate the malware.
- It could be virus that causing.
 - It could be a computer virus, and it might have entered her computer by her friend's pen drive.



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- c.
- 59
- Handmade, Harvest, Hemisphere, Hierarchy, Highlight, Husband, Hungry

8. More on Scratch

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- (iii)
 - (ii)
 - (i)
 - (ii)
 - (iv)
- Sensing
 - Local
 - Locations
 - Touching color
 - Global
- T
 - F
 - F
 - F
 - T



4. a. Light-blue b. Sound block c. Sensing Category
d. Code area
5. a. Variables are named locations where you can store information such as words or numbers.
b. Click on the Variables block, then click on Make a Variable. Type a name in the New variable name box, select whether the block is 'For all sprites' or 'For this sprite only', and click on the OK button.
c. Touching mouse-pointer block Returns true if the sprite touches the object, otherwise returns false.
d. You can click on the green flag to run your project.
e. It holds the most recent text entered with the Ask () and Wait block.
6. a. Ishita should create a global variable to ensure that its value can be accessed by all sprites in the project.
b. Luv should use the Motion block category, specifically the "if on edge, bounce" block.



Do it yourself.

9. Creating Game in Scratch

ASSESS YOURSELF

1. a. (ii) b. (iv) c. (i) d. (iii) e. (ii)
2. a. Backdrop b. Events c. Paint d. Select e. Green
3. a. T b. F c. T d. F e. T
4. a. The Text tool is used to add the title.
b. It lets users create a multiplayer spinning wheel game project.
c. The key pressed to spin the wheel in the Scratch project is the Spacebar key.
d. A backdrop sets the scene and improves game appearance.
e. Holding Shift helps draw a perfect circular wheel shape.
5. a. She should use the Paint option to draw her own maze.
b. The touching color block in Scratch is used to detect when a sprite is touching a specific color on the stage or another sprite. It's a sensing block, and it helps your program make decisions based on visual contact with certain colors.





Do it yourself.

10. Evolution of Artificial Intelligence

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- (ii)
 - (i)
 - (ii)
 - (iii)
 - (ii)
- Nevada's
 - Waseda
 - Chatbot
 - Spirit and Opportunity
 - Siri
- T
 - F
 - T
 - F
 - T
- Sophia
 - Google Home
 - ASIMO
 - Kinect for Xbox 360
- WABOT was an intelligent robot developed at Waseda University Japan.
 - Humans naturally possess all the abilities that define intelligence fully.
 - Machines developed abstract thinking, self-recognition and natural language processing abilities.
 - Jabberwacky, developed by Rollo Carpenter in 1988, is an example of AI via chatbot used for communicating with people.
 - Sophia is a humanoid robot recognised as the world's first robot citizen.
- Google's driverless car or self-driving vehicle
 - Kinect for Xbox 360 – A gaming device that improves gaming performance with motion tracking.

