

Windows 11

Office 21

Pixel

A Book of **Computer Science**

3



1. Computer and its Components

Assessment Zone

- A. 1. (a) 2. (c) 3. (b) 4. (c) 5. (b)
- B. 1. F 2. T 3. F 4. T 5. F
- C. 1. processor 2. Versatility
3. Operating System 4. Linux
5. Excel
- D. 1. **Input Devices** : Input devices are used to enter data in a computer.
Output Devices : Output devices show the final result or information after processing.
2. **Hardware** : All the physical equipment that are attached to a computer are collectively called hardware.
Software : Software is a set of instructions that tells a computer what to do and how to perform a particular task.
- E. 1. A computer is a powerful and useful machine. It is used in many different fields because of the characteristics it possesses.
2. Speed, Storage, Versatility and Accuracy.
3. System Software is a type of software that controls and manages the overall activities of a computer system.
- F. IPO (Input-Process-Output)

Fun Zone

1. HARDWARE 2. SOFTWARE
3. SYSTEM UNIT



2. Windows Operating System

Assessment Zone

- A. 1. (c) 2. (b) 3. (b) 4. (c) 5. (c)
- B. 1. F 2. F 3. T 4. T 5. F
- C. 1. Operating System 2. Desktop
3. Restart 4. Start Menu
- D. 1. User Interface controls how data is entered into computer and how information is displayed on the screen.

2. Start menu contain all the installed apps in the computer.
 3. Search box is used to search for items on our computer.
 4. (i) Using Start Menu Pinned Apps
(ii) Using All Apps List
(iii) Using Search Box
- E. Start button→Tux Paint



3. Paint 3D

Assessment Zone

- A. 1. (b) 2. (a) 3. (a) 4. (c)
- B. 1. T 2. F 3. F 4. T 5. T
- C. 1. Microsoft 2. x-axis, y-axis and z-axis
3. Text 4. textures, icons
5. Canvas
- D. 1. Paint 3D is used to create, edit and print 3D shapes.
2. Rotation tool is used to see 3D effects.
3. Shapes, Traditional Stickers, Surface Textures.
4. Using 3D Shapes option, we can add 3D objects in a project.
- E. Paint 3D

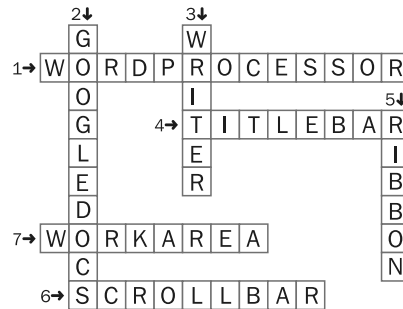


4. Word Processor (MS Word)

Assessment Zone

- A. 1. (b) 2. (b) 3. (c) 4. (b) 5. (a)
- B. 1. T 2. T 3. F 4. F 5. F
- C. 1. Ctrl + S 2. Ctrl + B 3. Ctrl + I
4. Ctrl + A
- D. 1. Google Docs 2. Status 3. font
4. left 5. .docx
- E. 1. A word processor is a computer software that is used for creating and formatting a document.
2. Formatting means changing the layout of the text of the document.
3. To make the text readable and fit on a page.
4. Saving a document helps to review and edit the saved file later.
- F. Home table → Font size option

Fun Zone

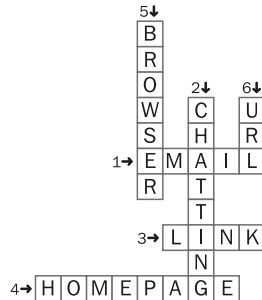


5. Internet

Assessment Zone

- A.** 1. (b) 2. (a) 3. (a) 4. (b)
- B.** 1. F 2. F 3. T 4. F 5. T
- C.** 1. E-mail 2. Social Networking
3. Website 4. URL
5. Web Browser
- D.** 1. Electronic Mail 2. World Wide Web
3. Uniform Resource Location
- E.** 1. Internet is the largest network that connects millions of computers across the world.
2. (i) Search on any topic
(ii) Buy on sell-things
(iii) Listen to music and play games
(iv) Send messages and communicate with friends.
3. Search engine is the software that finds websites, web pages, images, videos, news, maps and other information related to a specific topic on the Internet.
- F.** Google Chrome → E-commerce website → Search Product → Order Product

Fun Zone



Circle and write

Website, Search Engine, Web Page, WWW



6. Step-wise Thinking

Assessment Zone

- A. Use a wooden spoon to stir once. 4
Pour some fresh water and bring it to boil in a pan. 1
Cover the pot tightly with a lid. 2
Add rice to the boiling water. 3
Gently fluff the rice with a fork. 6
Cover pot and let rice simmer for about 15 minutes. 5
- B. 1. Step-wise Thinking 2. Sequence
3. accurate
- C. 1. Step-wise thinking is a kind of thinking activity with a purpose or goal in mind.
2. Sequence is the particular order to perform the step-wise instructions.



7. Scratch 3

Assessment Zone

- A. 1. (a) 2. (b) 3. (b) 4. (b)
- B. 1. T 2. T 3. F 4. T 5. T
- C. 1. Script Area 2. code 3. Sprite 4. Operators
5. Pen

- D. 1. It is the place where you see your stories, games and animations come to life.
- 2. It is the place where you make your programs in Scratch by assembling blocks there.
- 3. A program is a set of instructions to perform a particular task.
- E. 1. (i) Blocks are color-coded and categorized.
- (ii) Commands or blocks fit together like jigsaw pieces.
- 2. Sprite is a small character that performs all actions in scratch.
- 3. Motion, Looks, Sound, Events, Control, Sensung, Operators Variables, My Blocks.
- 4. Code tab shows as any script that currently exists whereas costumes tab allows us to create, edit or copy the image of the sprite.
- F. Click the set of block.



8. AI vs. Human Intelligence

Assessment Zone

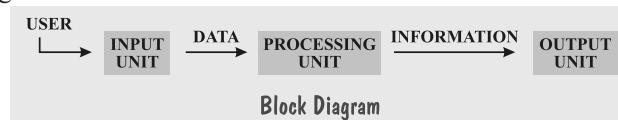
- A. 1. (c) 2. (a) 3. (b) 4. (b) 5. (a)
- B. 1. T 2. F 3. T 4. T 5. T
- C. 1. mimics 2. speed 3. weak 4. Sophia
- 5. dataset
- D. **Weak AI**
Weak AI machines are designed and trained for a particular task.
- Strong AI**
Strong AI machines can think and accomplish complex tasks on their own.
- E. 1. (i) Problem solving and Decision Making.
- (ii) Reasoning and Planning.
- 2. (i) Human Intelligence is natural whereas AI is artificial.
- (ii) Human decision can be biased whereas decision making capability of AI is unbiased.
- 3. It yells out words and phrases that we are trying to illustrate.
- F. Learning and Adaptability



Half-Yearly Model Test Paper

Chapter 1-4

- A. 1. (b) 2. (a) 3. (b) 4. (c) 5. (b)
- B. 1. T 2. T 3. F 4. T 5. T
- C. 1. Storage 2. App 3. Text 4. Rotation 5. shape
- D. 1. **Hardware** : All the physical equipment that are attached to a computer are collectively called hardware.
2. **Warm booting** : The process to restart a computer that is already on is called warm booting.
3. **Formatting** : Formatting means making any changes to the text of the document so that it should look eye-catching and attractive.
4. **Font** : A font is a typeface that defines the shape of each character.
- E. 1. The working of a computer can also be shown in the form of a block diagram.



- This is how a computer works and it is also known as IPO cycle.
2. Software is a set of instructions that tells a computer what to do and how to perform a particular task.
3. Interface provides simpler ways for the users to use the computer. User interacts with operating system through its user interface. It controls how you enter data and how information is displayed on the screen. Most of the operating systems use two types of user interface. These are as follows :
- (i) Command Line Interface.
- (ii) Graphical User Interface.
4. Types of stickers available in paint 3D are shapes, traditional, stickers and surface textures.
5. We increase and decrease the text size in Word because increasing the size makes reading of the text easier while decreasing the size helps fit more text on a page.



Annual Model Test Paper

Chapter 5-8

- A. 1. (a) 2. (c) 3. (a) 4. (b)
- B. 1. T 2. T 3. F 4. T
- C. 1. Web browser 2. Step Wise Thinking 3. Operators
4. Planning
- D. 1. **Home page** : Whenever you open a website in a web browser, the first page that appears is the home page.
2. **Sequencing** : Sequencing is the particular order in which instructions are performed in an algorithm.
3. **Script** : To tell a sprite what to do, you snap graphic blocks together into stacks called scripts.
4. **Quick, Draw!** : Quick, Draw! is a free online game developed by Google. This game prompts players to quickly draw six different objects.
- E. 1. Today, the Internet is used by most of the people. It has become a powerful tool in today's world. The different uses of Internet are : E-Mail, Search Information, Shopping, Chatting, Advertisement, Listening to music and watching movies, playing games and Social Networking.
2. Social networking is a service that enables you to connect with people who share similar personal or professional interests. One of the most popular social networking sites is Facebook.
3. Step-wise thinking is a kind of thinking activity with a purpose or goal in mind.
4. The two advantages of Scratch are as follows :
(i) You do not have to remember or type any commands; they are all on the screen, so you just need to drag and drop them.
(ii) Commands or blocks fit together like jigsaw pieces, so there are clear visual hints about how you can combine them.
5. Pen is used to draw shapes using different colors and sizes. By default, Pen is not located in the Blocks category. To use Pen, you have to enable it from Extensions.
6. Problem-solving and decision-making, Reasoning and planning.

