Computer and Its components

A. Choose the appropriate options:

1. System unit is also called the

   a. Computer box ☐   b. Computer case ☐   c. CPU box ☐

2. Mother board is also known as

   a. System board ☐   b. Main board ☐   c. Both A & B ☐

3. The speed of CPU is measured in

   a. Megahertz ☐   b. Gigahertz ☐   c. Both A & B ☐

4. RAM is a ....memory.

   a. Volatile ☐   b. Non-Volatile ☐   c. None of these ☐

5. .... is a temporary memory.

   a. RAM ☐   b. ROM ☐   c. Both A & B ☐

B. Fill in the blanks:

1. .... is a box-like case that stands near the monitor.

2. .... provides connectors for other external devices.

3. Memory of the computer is measured in ....

4. .... is the process of copying data from RAM to the hard disk.

5. An .... card is a circuit-board that is fitted in a socket on the motherboard.

C. Write T for the true statement and F for the false one:

1. Some system units are also placed below the monitor. ☐

2. The speed of CPU is increasing day-by-day. ☐

3. RAM is called the Primary memory. ☐

4. ROM is a non-volatile memory. ☐

5. ALU stands for Arithmetic Logic Unit. ☐

D. Answer the following questions:

1. What do you mean by Mother board?

2. Name the components present inside the system Unit?

3. Write a short note on speed of CPU?

4. What is SSD?

5. What is SMPS?

E. Differentiate between:

1.   Arithmetic Operation   Logical Operation

....

....

....

2.   Control Unit   Memory Unit

....

....

....

F. Match the following:

Mother Board	Microphone
Logical Operations	Circuit Board
Audio Port	AND, OR
Network Port	Mouse
USB Port	Internet

G. Application based questions:

1. Simran wants to listen to music from her computer but she is unaware on which port she connects the Speaker.

Ch–2 Ubuntu- Costomizing and Personalizing

A. Choose the appropriate options:

1. Ubuntu was developed by

    a. Microsoft ☐   b. Apple Inc ☐   c. Canonical Ltd ☐

2. Ubuntu is an ancient...................................word.

    a. Indian ☐   b. African ☐   c. American ☐

3. GNOME is a desktop environment of.

    a. Windows ☐   b. Ubuntu ☐   c. Mac OS ☐

4. A ....appears at the top of the overview screen.

    a. Menu bar ☐   b. Title bar ☐   c. Search bar ☐

5. The Dock is a long vertical bar that appears on the...................................side of the screen.

    a. Left ☐   b. Right ☐   c. Bottom ☐

B. Fill in the blanks:

1. .... is a free open-source Linux distribution.

2. The word Ubuntu means...................................

3. On the left side of the panel, there is an................................... button.

4. Panel looks like the .... of a program.

5. .... icon is used to lock your computer..

C. Write T for the true statement and F for the false one:

1. Ubuntu recognizes input from an Input device. ☐

2. Ubuntu can be downloaded free of cost. ☐

3. Panel appears at the bottom of the screen. ☐

4. Volume icon looks like a small speaker. ☐

5. The default theme color of Ubuntu is orange. ☐

D. Answer the following questions:

1. What is booting?

2. What is the full form of GNOME?

3. Why some users prefer dark mode?

4. What do you mean by resolution?

C. Differentiate between:

1.   Power Icon   Setting Icon

....

....

....

G. Application based questions:

1. Azhar wants to adjust the volume settings of his computer. But he is unaware on which menu he finds the Volume icon.

2. Tanveer is working on computer using Ubuntu Operating System he needs to go to washroom but he doesn't want to shut down the computer nor he wants to left his computer open. Help him what should he do in this situation.

A. Choose the appropriate options:

1. .... is a free word processing program.

   a. Writer ☐   b. Scratux ☐   c. Excel ☐

2. Some words are underlined with .... color.

   a. Red ☐   b. Blue ☐   c. Both A & B ☐

3. You can insert blank space with.

   a. Enter ☐   b. Spacebar ☐   c. Shift ☐

4. All characters will be in reverse from the previous case.

   a. Lower case ☐   b. Upper case ☐   c. Cycle case ☐

5. We can...................................... the size of the text in your document.

   a. Increase ☐   b. Decrease ☐   c. Both A & B ☐

B. Fill in the blanks:

1. In Writer we can insert ....

2. Blue color indicates ....error.

3. You can remove the text by ....key.

4. Font size controls the ....of the font.

5. By default, Writer assigns the ....align command.

C. Write T for the true statement and F for the false one:

1. With Writer we can edit documents. ☐

2. Writer automatically underlines misspelt words. ☐

3. To undo, you can also press Ctrl+Z keys. ☐

4. Font is measured in points. ☐

5. We can insert pictures only from the computer. ☐

D. Answer the following questions:

1. What are the seven case options offered by Writer?

2. What do you mean by Wrapping text around graphics?

3. Define Bullet?

4. What do you mean by Drop Cap?

E. Differentiate between:

1.   Find Command   Replace Command

....

....

....

2.   Sentence Case   Capitalize Each Word

....

....

....

F. Match the following:

Ctrl + F	Theasure
Ctrl + H	Open Find Dialogue Box
Ctrl + 7	Open Find and Replace Dialogue Box
Ctrl + P	Saves a Document
Ctrl + S	Prints a Document

G. Application based questions:

1. Hassan writes a paragraph in the Writer. But some words are underlined with red wavy lines. Tell him which option he used to avoid these red wavy lines.

2. Iqra wants to find a particular word in her document. But she is unaware which shortcut key she used for this.

Ch–4 Libre Office Impress

A. Choose the appropriate options:

1. ....is a presentation program developed by Libre Office.

   a. Impress ☐   b. Writer ☐   c. Calc ☐

2. A blank presentation, named.................................... displayed in the impress window.

   a. Untitled ☐   b. Untitled 1 ☐   c. Untitled 2 ☐

3. The default extension of Impress is

   a. .odp ☐   b. .ODP ☐   c. .oDp ☐

4. The side bar has ....sections.

   a. Seven ☐   b. Eight ☐   c. Nine ☐

5. Click on New Slide option or press

   a. Ctrl+L ☐   b. Ctrl+M ☐   c. Ctrl+N ☐

B. Fill in the blanks:

1. Impress helps us to create ....

2. One page of your presentation is called ....

3. .... provide a quick way to create a new Impress Presentation.

4. ....is a place where you can create presentation.

5. Each menu contains a list of ....

C. Write T for the true statement and F for the false one:

1. An Impress presentation is also known as a slide show. ☐

2. Group of slides on any topic is called presentation. ☐

3. The side bar has six sections. ☐

4. Some templates are installed or built in on your hard disk. ☐

5. You can press Esc key to end the slide show at any time. ☐

D. Answer the following questions:

1. What are Templates?

2. What do you mean by Slides Pane?

3. What is the use of window control buttons?

4. Name the several items displayed in Impress window.

E. Differentiate between:

1.   Splitter Bar   Status Bar

....

....

....

G. Application based questions:

1. Suzain wants to make her presentation look more attractive and effective. But she does not know where these options are present. Would you help her in making presentation more attractive and effective.

2. Tabu needs to end the slide show. Help her by telling which key she used to do this.

Internet - Surfing and Security

A. Choose the appropriate options:

1. ARPANET was set up by the Department of ....

   a. Technology ☐   b. Finance ☐   c. Defense ☐

2. Millions of people started having access to Internet by the mid ....

   a. 1990s ☐   b. 2000 ☐   c. 80s ☐

3. There are .... main types of   modems.

   a. Two ☐   b. Three ☐   c. Four ☐

4. Many search engines use a program called.

   a. Cockroach ☐   b. Spider ☐   c. Ant ☐

5. Mosaic was developed by.

   a. Marc Andreessen ☐   b. Eric Bina ☐   c. Both A & B ☐

B. Fill in the blanks:

1. The history of the internet starts with the birth of ....

2. ARPANET was initially used only by the .... officials and ....

3. A modem is a short form for ....

4. ISPs allow you to use Internet for a.................................... charge.

5. .... is a program that searches through the collection of web pages.

C. Write T for the true statement and F for the false one:

1. ARPANET was the first network of computers in the world. ☐

2. With the help of Internet, you can play online games and make new friends. ☐

3. Bing is a popular search engine. ☐

4. Mosaic was the first successful graphical web browser. ☐

5. Firefox is a web browser created by Mozilla team. ☐

D. Answer the following questions:

1. What do you mean by Network?

2. What is the aim behind ARPANET?

3. Write two Disadvantages of Internet.

4. Write the name of some Internet Service Providers.

5. Why should you use private or Incognito mode?

E. Differentiate between:

1.   Dial-up Connection   Broadband

....

....

....

F. Match the following:

ARPANET	1995
Mosaic	1969
Microsoft Internet Exporer	1993

G. Application based questions:

1. Jannat's father wants to download educational videos for Jannat from Internet but his Internet has slow speed. Help him by telling what Internet connection he needs to increase his Internets speed.

2. Kounsar wants to buy Internet connection. Help her by giving name of some Internet Service companies.

Ch–6 Algorithm and Reasoning

A. Debug this algorithm.

Step 1. Press the CPU button

Step 2. Switch on UPS

Step 3. Press the Monitor buttons

Step 4. Give Password

Step 5. Switch on the main power.

B. Fill in the blanks:

1. .... is a process to find and remove bugs.

2. ....is the ability of the mind to think and understand things in a logical way.

3. Algorithms also contain.....................................action based instructions

C. Write T for the true statement and F for the false one:

1. When bugs are removed, algorithms work correctly.

2. Reasoning skills are not essential in our day-to-day life.

3. There is no need to debug the algorithm if you make mistakes while writing algorithm.

D. Answer the following questions:

1. What is Sequencing?

2. What are bugs?

3. Why reasoning skills are essential in our daily life.

4. Why Debugging is important?

E. Application based Questions:

1. While writing Algorithm Bilal make some mistake. By which process he rectify his mistakes.

A.   Choose the appropriate options:

1.   You can give .... to a sprite.

   a.   Instructions ☐   b.   program ☐   c.   none of these ☐

2.   .... blocks change the appearance and costumes of sprites.

   a.   Looks ☐   b.   event ☐   c.   sound ☐

3.   C block are also known as

   a.   Wrap block ☐   b.   Cap block ☐   c.   Stack block ☐

4.   In Scratux, ... is the default sprite.

   a.   Cat ☐   b.   Leopard ☐   c.   Tiger ☐

5.   In Scratux, the Boolean blocks are of .... shape.

   a.   Octagonal ☐   b.   pentagonal ☐   c.   Hexagonal ☐

B.   Fill in the blanks:

1.   Blocks are...................................... by category.

2.   Variables are used to store......................................

3.   .... blocks perform mathematical functions within the project.

4.   Cap blocks are used to......................................the scripts.

5.   ....blocks are used to start every script.

C.   Write T for the true statement and F for the false one:

1.   You can choose any image as a script. ☐

2.   Scratux provides four different options for adding sprite to your applications. ☐

3.   My blocks are used to create your own blocks. ☐

4.   Each costume is assigned a unique name and number. ☐

5.   By default, the background of the stage is white. ☐

D. Answer the following questions:

1. Name six different block shapes.

2. What do you understand by sound blocks?

3. How can you delete the sprite?

4. What do you mean by sprite stage?

5. What do you understand by coding area?

6. What do you mean by event?

E. Differentiate between:

1.	Hat Blocks	Reporter Blocks
	....	....
	....	....
	....	....

2.	C Blocks	Cap Blocks
	....	....
	....	....
	....	....

F. Application based questions:

1. Shafaliqa wants to create a new sprite for her project. Which button she used to do create new sprite for her project.

2. Tanveer makes a project in Scratux. He wants to use True or False condition in his project. But he doesn't know which block shape he used. Help him in this situation.

AI in Smart Homes

A. Choose the appropriate options:

1. Smart locks even allow remote access to a ....party

   a. First ▢   b. Second ▢   c. Third ▢

2. LUIS is a service developed by.

   a. Microsoft ▢   b. Apple Inc ▢   c. None of these ▢

3. Using AI technology, smart bulbs connect to an app or smart home assistant, like

   a. Siri ▢   b. Alexa ▢   c. both a & b ▢

4. AI has the potential to help.................................... live more meaningful and comfortable lives.

   a. Humans ▢   b. Aliens ▢   c. Animals ▢

5. ....detect fire and gas leak incidents.

   a. Smoke sensor ▢   b. fire extinguisher ▢   c. None of these ▢

B. Fill in the blanks:

1. AI has improved and changed the way we ....

2. .... lets users lock and unlock doors through their smartphone.

3. Data is the.................................... of AI.

4. Siri or Alexa uses .... technology.

5. AI helps computer or machines to .... with humans in their own language.

C. Write T for the true statement and F for the false one:

1. You can receive video alerts when your motion-detection camera records any movement. ▢

2. Without Adequate data no AI system can be developed. ▢

3. The main goal of AI to copy human Intelligence. ▢

4. Smoke sensor is an example of smart device. ▢

5. You can control the light remotely via AI technology ▢

D. Answer the following questions:

1. Why data is said to be the heart of Artificial Intelligence?

2. What is a Smart home?

3. What do you mean by online shopping?

4. What do you understand by Smart lock?

5. Name some big organizations that are trying to unleash the full potential of AI.

E. Application based questions:

1. Mushtaq Constructs a new house. Now he wants to secure his house from thieves. Which device he used to detect any type of motion.

2. Almost every day we listen about fire incidents. Is there any device which give us alertness about fire.

From Lesson No 1 to 4

A. Choose the appropriate options:

1. RAM is a ....memory.

   a. Permanent ☐   b. Temporary ☐   c. Fixed ☐

2. The side bar has ....sections.

   a. Seven ☐   b. Eight ☐   c. Nine ☐

3. Blue color indicates....................................mistakes.

   a. Spelling ☐   b. Grammatical ☐   c. None of these ☐

4. Impress helps us to create.

   a. Presentation ☐   b. Document ☐   c. Pictures ☐

5. .... is a power supply Unit in a computer used to transfer power to it.

   a. SMPS ☐   b. SMCS ☐   c. SMES ☐

B. Fill in the blanks:

1. .... provides connectors for other external devices.

2. A .... appears at the top of the overview screen

3. We can insert blank space with ....

4. .odp is the extension of ....

5. Group of slides on any topic is called ....

C. Write T for the true statement and F for the false one:

1. The side bar has Nine sections. ☐

2. Panel appears at the top of the screen. ☐

3. Font is measured in inches. ☐

4. You cannot add new slides in Impress. ☐

5. Speed of CPU is decreasing day-by-day. ☐

D. Answer the following questions:

1. Name the components present inside the system Unit?

2. What do you mean by resolution?

3. Define Bullet?

4. What are Templates?

From Lesson No 5 to 8

A. Choose the appropriate options:

1. A.................................. is defined as a group of two or more computer systems linked together.

   a. Network ☐ b. Internet ☐ c. Connection ☐

2. A .... is any webpage name that lists as a result of a search.

   a. Hit ☐ b. Spider ☐ c. Find ☐

3. ....is a particular order in which instructions are performed in an algorithm.

   a. Sequencing ☐ b. Debugging ☐ c. None of these ☐

4. After debugging, the algorithm works.

   a. Correctly ☐ b. In correctly ☐ c. does not work ☐

5. Scratux interface provides the most up-to-date version of.

   a. Scratch 3.0 ☐ b. Scratch 3.1 ☐ c. Scratch 3.2 ☐

B. Fill in the blanks:

1. The biggest advantage of the Internet is that you can access it from a ....or.................................... device anywhere.

2. The full form of ARPANET is....................................

3. .... connection is still used in remote areas.

4. .... is a branching conditional statement.

5. .... block define the movement of sprites.

6. The smart devices in a smart home are connected .... to the Internet.

7. Smart lock is a .... enabled device.

C. Write T for the true statement and F for the false one:

1. ARPANET was set up by the department of defense of the India. ☐

2. Your personal information can be mis-used on Internet. ☐

3. Algorithm is not important to solve a problem. ☐

4. Scratux projects are made up of small objects. ☐

5. Data is the brain of AI. ☐

6. Smart home devices have sensors and software that allow them to communicate with other devices.

7. LUIS developed by Microsoft.

D. Answer the following questions:

1. What do you understand by Modem?

2. Why broadband is better than dial-Up connection?

3. Define Algorithm.

4. What is reasoning?

5. Why do we instruct the Script?

6. What are goals behind AI?

7. How can I make our home smart home?

8. What are smart locks?