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COMPUTER NETWORKING

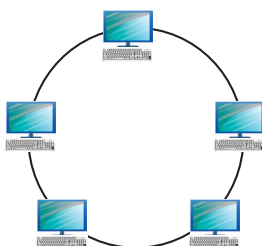
A. Circle the correct option.

1. The process of (connecting / separating) computers and peripheral devices with each other, so that they can exchange data is called computer networking.
2. A (server / client) is also called as host computer.
3. (LAN / WAN) is a digital communication system that interconnects a large number of computers and other peripheral devices within a radius of less than 1 km.
4. In (Ring / Star) topology, all the nodes are connected in a circular path.
5. (Protocol / Bluetooth) is a set of rules that governs the communication between the computers on a network.

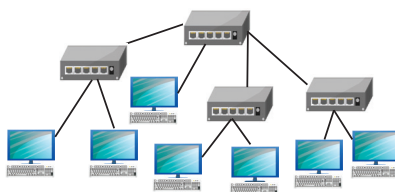
B. Complete the sentences.

1. Modem stands for MODULATOR
2. Networking cable is also known as
3. The computer which stores and provides the access to a database is called a
4. The computer which performs a specific task is called the
5. The total diameter of LAN is not more than

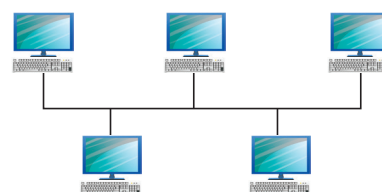
C. Name the type of topology used in the below images.



1.



2.



3.

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COMPUTER NETWORKING

A. Define the following:

1. Modem -
2. Hub -
3. Computer Network -

B. Tick (✓) the correct option.

1. Which of the following is an e-mail protocol used for sending e-mail messages across the Internet?

a. SMTP	<input type="checkbox"/>	b. IMAP	<input type="checkbox"/>
c. FTP	<input type="checkbox"/>	d. HTTP	<input type="checkbox"/>
2. Which of these is not a protocol?

a. HTTP	<input type="checkbox"/>	b. HTTPS	<input type="checkbox"/>
c. FTP	<input type="checkbox"/>	d. HTML	<input type="checkbox"/>
3. Which of these is the Internet standard protocol that allows clients to retrieve e-mail messages from an e-mail server?

a. HTTP	<input type="checkbox"/>	b. FTP	<input type="checkbox"/>
c. POP3	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
4. Which of the following is a wireless communication technology?

a. Bluetooth	<input type="checkbox"/>	b. Wi-Fi	<input type="checkbox"/>
c. Both a and b	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>

C. Write the full form of the following:

1. HTTP -
2. MAN -
3. NIC -

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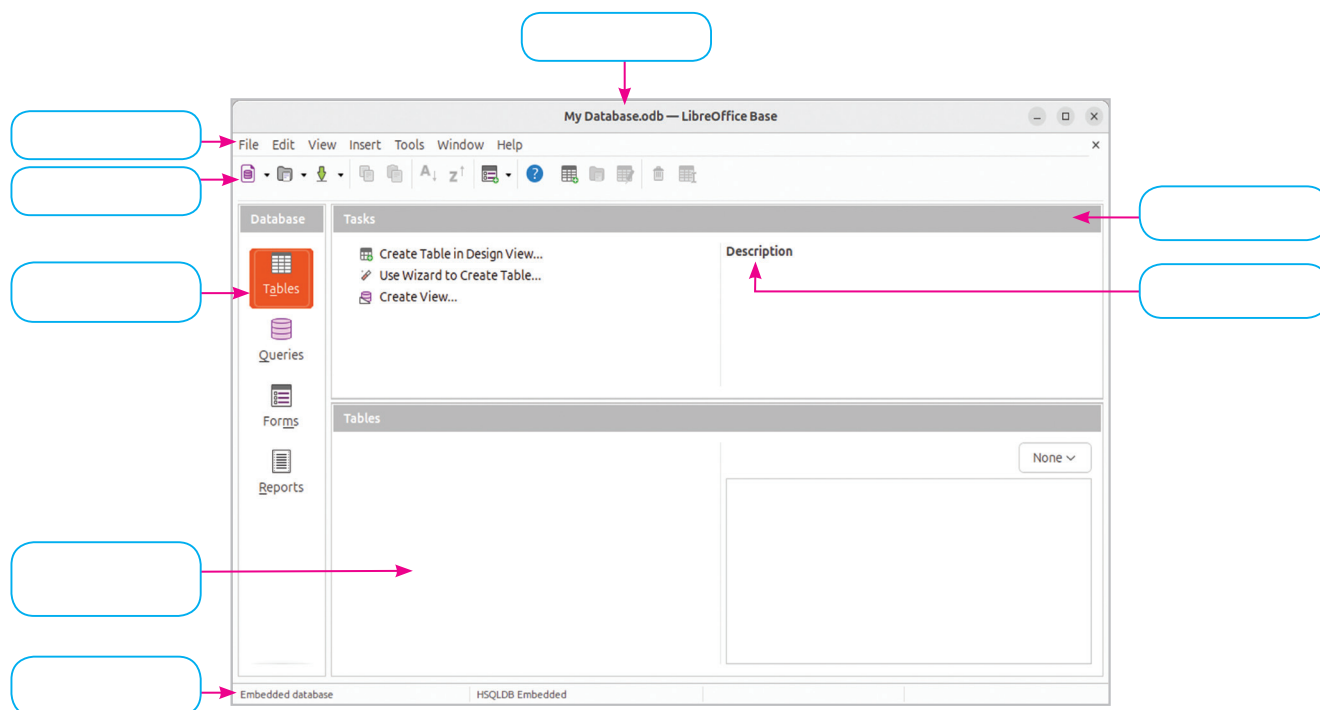
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INTRODUCTION TO LIBREOFFICE BASE

A. Write 'T' for true and 'F' for false.

1. Table is a group of related data organised in columns and rows in a database.
2. Field Name is used to enter name of the field to be displayed as column heading in the table.
3. Field Properties Pane is used to set the properties for the fields defined in the table.
4. Table Data View is not the default view of the table.
5. Number is used to store numbers with a decimal point.
6. A database system maximize the redundancy of data.

B. Label the following:



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INTRODUCTION TO LIBREOFFICE BASE

A. Define the following:

1. Primary Key -
.....
2. Report -
.....
3. Query-
.....

B. Tick (✓) the correct option.

1. Which of the following is used to store numbers, both positive and negative, without decimal points?

a. Decimal	<input type="checkbox"/>	c. Integer	<input type="checkbox"/>
b. Number	<input type="checkbox"/>	d. Text	<input type="checkbox"/>
2. Which view is the default view of a table?

a. Table Design	<input type="checkbox"/>	c. Field Grid	<input type="checkbox"/>
b. Table Data	<input type="checkbox"/>	d. Both a and c	<input type="checkbox"/>
3. Which bar contains icons for various commands under different menus?

a. Status Bar	<input type="checkbox"/>	c. Title Bar	<input type="checkbox"/>
b. Menu Bar	<input type="checkbox"/>	d. Toolbar	<input type="checkbox"/>
4. Which bar displays the name of the currently opened database?

a. Menu Bar	<input type="checkbox"/>	c. Title Bar	<input type="checkbox"/>
b. Toolbar	<input type="checkbox"/>	d. Menu Bar	<input type="checkbox"/>

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MORE ON LIBREOFFICE BASE

A. Fill in the blanks.

1. (Table / Forms) displays the name of the existing tables in the relationship window.
2. (Or / And) is used to set multiple conditions in a query.
3. A (Foreign / Primary) Key is a column in one table that must match the Primary Key of another table.
4. (Function / Query) allows to use built-in functions of LibreOffice Base.
5. (Alias / Forms) are used to create, edit and display data stored in tables in a user-friendly manner.

B. Identify the images and write their names.

1. 
2. 
3. 
4. 

C. Rewrite the incorrect statements.

1. Design View is used to change the appearance and size of various controls of a form.
.....
2. Parameter Query retrieves data from one or more tables.
.....
3. Visible allows us to give a secondary name to a table.
.....
4. Relationships are used to create, edit and display data stored in tables in a user-friendly manner.
.....

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MORE ON LIBREOFFICE BASE

A. Define the following.

1. Parameter Query - _____

2. Foreign Key - _____

3. Forms - _____

B. Tick (✓) the correct option.

1. Which type of query prompts you for input before it runs?

a. Select	<input type="checkbox"/>	b. Parameter	<input type="checkbox"/>
c. Action	<input type="checkbox"/>	d. Crosstab	<input type="checkbox"/>
2. Which feature allows you to organize and present your data in a user-friendly format?

a. Form	<input type="checkbox"/>	b. Table	<input type="checkbox"/>
c. Both a and b	<input type="checkbox"/>	d. Report	<input type="checkbox"/>

C. Write 'T' for true and 'F' for false. Correct the false statements.

1. Design View is used to change the appearance and size of various controls of a form.

2. A relationship works by matching a field with the same name in both the tables.

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MORE ON GIMP

A. Tick (✓) the correct option.

1. Which tool is used to blur an image?

a. Blur /Sharpen Tool ☐

c. Brush Tool ☐

b. Healing Tool ☐

d. Dodge Tool ☐

2. Which of the following is a retouching tool?

a. Healing Tool ☐

c. Clone Tool ☐

b. Both a and b ☐

d. None of these ☐

3. Keyboard shortcut to set a new heal source point is.....

a. Ctrl + Shift ☐

c. Alt + Click ☐

b. Ctrl + Alt ☐

d. Ctrl + Click ☐

4. Which tool is used to duplicate part of an image?

a. Blur Tool ☐

c. Clone Tool ☐

b. Healing Tool ☐

d. Crop Tool ☐

B. Read the clues and answer the following:

1. It is a tool used to sharpen the image.

.....

2. It is used to set order of visibility of the objects.

.....

3. It contains tools to create, edit and enhance an image.

.....

4. It is a keyboard shortcut to select Healing tool.

.....

5. It shows options for the currently selected tool.

.....

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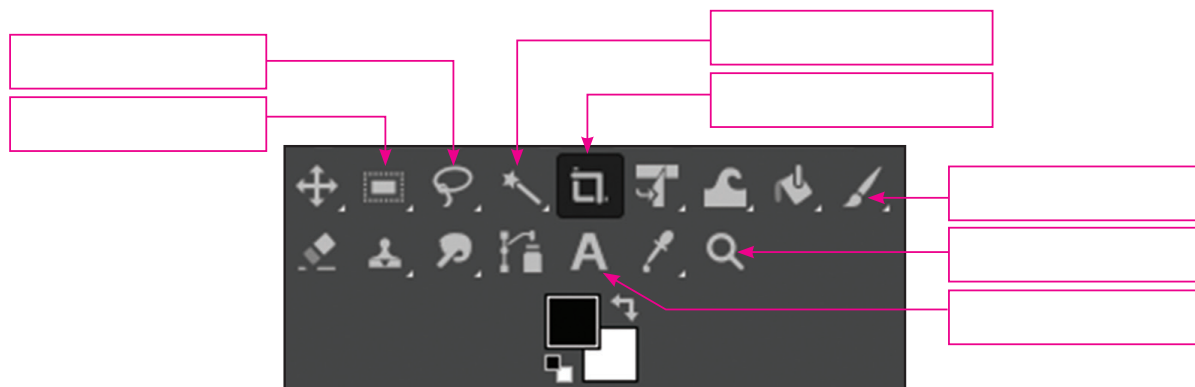
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MORE ON GIMP

A. Circle the correct option.

1. (Retouching / Correction) tools are used to improve the quality of the image by blurring, sharpening, smudging, dodging and burning the image.
2. (Burn/Blur Tool) is used to darken the existing colours of an image.
3. (Dodge/ Smudge Tool) is used to lighten the existing colours of an image.
4. (Smudge / Clone Tool) is used to show the image as the wet paint on the image has been spread by a finger.
5. (Healing / Sharpen) Tool is used to repair dark spots, scratches, etc., from the image.

B. Label the GIMP Toolbox.



C. Number the steps to use the Sharpen feature.

- ☐ Select the brush size and hardness from the Tool Options.
- ☐ Press and hold Ctrl key and then drag the mouse pointer over the area that you want to sharpen.
- ☐ Open an image.
- ☐ Release the Ctrl key.
- ☐ Click on the Blur/Sharpen Tool from the Toolbox.

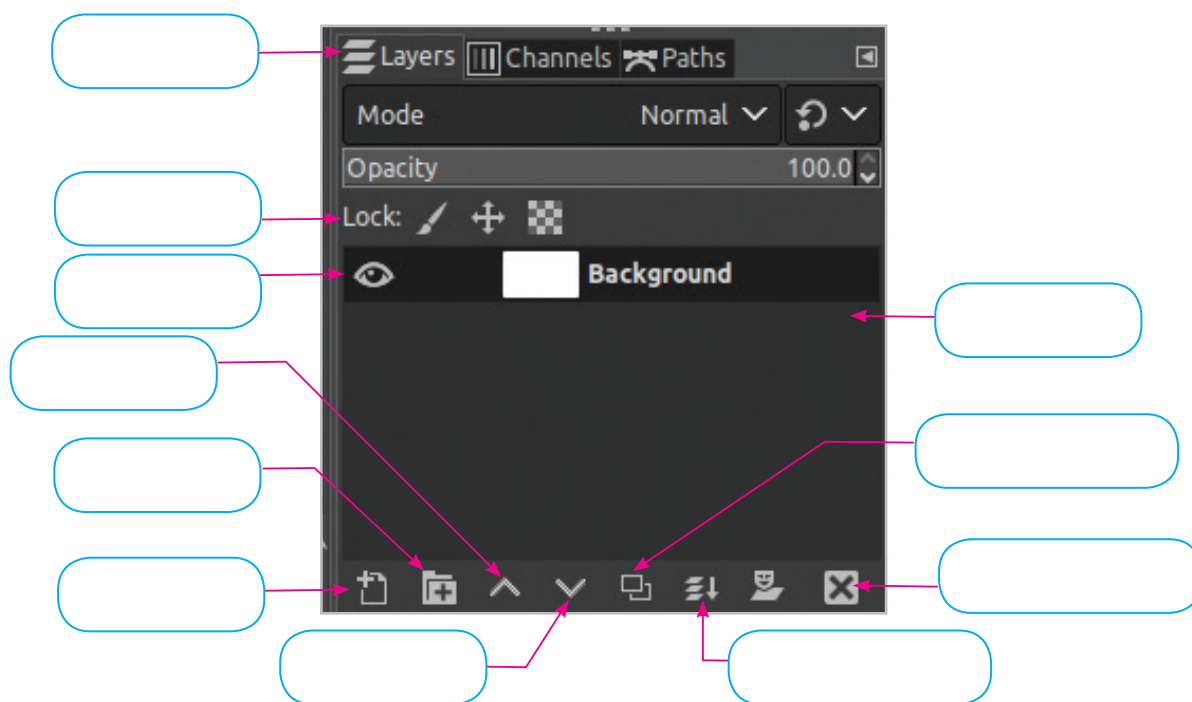
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LAYERS AND FILTERS IN GIMP

A. Label the given Layer palette.



B. Read the clues and answer the following:

1. It is used to combine all the layers as one layer.
2. These tools are used to modify an image in a variety of ways.
3. It is a palette displays all the layers.
4. It is used to merge the selected layer with the layer below it.
5. It is a tool used to increase or decrease the on-screen size of an image.
6. It is an icon used to hide or unhide a layer.

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LAYERS AND FILTERS IN GIMP

A. Fill in the blanks using the hints given below:

Hints: Invisible, Layers, Flatten Image, Toggle, Filters, Create a new layer

1. You can create a new layer by using button.
2. are transparent sheets.
3. A button is a user interface control which is used to display ON or OFF states.
4. Hiding a layer means to make the layer temporarily
5. option is used to combine all the layers of an image.
6. can be applied to an entire image or to a part of the image.

B. Answer the following questions:

1. What do you understand by re-ordering a layer?

.....
.....

2. Define 'Layers stack'.

.....

3. What is an Eye icon?

.....

4. Write the use of Lock Pixels.

.....
.....

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MORE ON HTML

A. Circle the correct option.

1. HTML allows you to insert images inside the web pages through the (/ <IMAGE>) tag.
2. The (ALT / SRC) specifies the source location or URL of the image to be inserted in the web page.
3. The (FLOAT/ALIGN) CSS property aligns the image to the left or right.
4. The (BORDER / MARGIN) adds a border around the image.
5. Hyperlink text is generally seen in (blue / green) color.

B. Read the clues and answer the following:

1. It is an CSS property rounds the corners of an image.
.....
2. It is an attribute value that opens the linked web page in a new window or tab of the web browser.
.....
3. It is a tag used for creating links, that is, hyperlinking in HTML web pages.
.....
4. It is a CSS property that adds space around the image.
.....
5. It is the HTML tag allows you to embed another HTML document within your current web page.
.....

C. Write the HTML code to create a Web page that has an image "lily.jpg" on the right side.

.....
.....

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MORE ON HTML

A. Tick (✓) the correct option.

- Which attribute specifies the alternate text to be displayed in the web browser, if the provided image is not found?

a. SRC	<input type="checkbox"/>	b. ALT	<input type="checkbox"/>
c. ALTERNATE	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Which feature is used to display more than one web page on a single screen?

a. Linking	<input type="checkbox"/>	b. Hyperlink	<input type="checkbox"/>
c. Tables	<input type="checkbox"/>	d. Frames	<input type="checkbox"/>
- Which of the following is used to set the style for an unvisited link?

a. a:link	<input type="checkbox"/>	b. a:visited	<input type="checkbox"/>
c. a:hover	<input type="checkbox"/>	d. a:active	<input type="checkbox"/>

B. Write the names of the tags or attribute used to perform the following functions:

- Specifies the width of the image on the web page.
- Insert an image on the Web page.
- Create a hyperlink.
- Divide a browser window into many sections.

C. Write 'T' for true and 'F' for false.

- The default colour of the visited link is purple.
- We cannot specify the width and height of an image in a web page.
- PNG image file format stands for Portable Ink Group.
- The alt attriubte is used to specify the name of the frame.

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GOOGLE APPS

A. Write the names of any four Google apps.

1.
2.
3.
4.

B. Fill in the blanks using the hints given below:

Hints: Google Docs, Video viewers, Cloud-based, Video creators, Google Maps, 2008,

1. Apple launched its App Store in
2. Google Drive is a storage service.
3. is a digital navigation tool that provides detailed information about the geographical regions of any particular area.
4. was started by Google in 2006 as part of its complete office suite.
5. YouTube has two types of users and

C. Answer the following questions in one word:

1. This cloud-based storage service gives you 15 GB of free cloud storage when you sign up for the first time.
2. This is one of the most widely used and highly regarded email services available on the Internet.
3. This is the parent company of Google subsidiaries.
4. This Google Maps view option allows users to explore panoramic street-level imagery of locations.
5. Which icon notifies viewers about new videos uploaded by a subscribed channel?

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TOUCHPAD

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Chapter-7

CLASS 8

GOOGLE APPS

A. Tick (✓) the correct option.

- When was Google founded by Sergey Brin and Larry Page?

a. 1996	<input type="checkbox"/>	b. 1997	<input type="checkbox"/>
c. 1998	<input type="checkbox"/>	d. 1999	<input type="checkbox"/>
- Which of the following is not a key feature of Google Drive?

a. Work Offline	<input type="checkbox"/>	b. Not Secure	<input type="checkbox"/>
c. Accessibility	<input type="checkbox"/>	d. Automatic Saving	<input type="checkbox"/>
- Which of the following views is the default view of Google Maps?

a. Street View	<input type="checkbox"/>	b. Satellite	<input type="checkbox"/>
c. Terrain	<input type="checkbox"/>	d. Map View	<input type="checkbox"/>
- Which of the following is the most widely used video-sharing application?

a. Facebook	<input type="checkbox"/>	b. Gmail	<input type="checkbox"/>
c. YouTube	<input type="checkbox"/>	d. Google Maps	<input type="checkbox"/>
- Which of the following is an online version of a presentation software like Microsoft PowerPoint?

a. Google Docs	<input type="checkbox"/>	b. Google Slides	<input type="checkbox"/>
c. Google Sheets	<input type="checkbox"/>	d. Google Maps	<input type="checkbox"/>

B. Answer the following questions:

- Define Gmail.

.....

.....

- Write few tips for using Google search engine.

.....

.....

Grade:



Teacher's Signature: _____

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APP DEVELOPMENT






A. Define the following:

1. Android - _____

2. iOS - _____

3. Utility Apps - _____

B. Match the following:

- | | |
|--|------------------------|
| 1.  | a. Instagram |
| 2.  | b. Microsoft Store |
| 3.  | c. Gmail |
| 4.  | d. Google's Play Store |
| 5.  | e. Apple's App Store |

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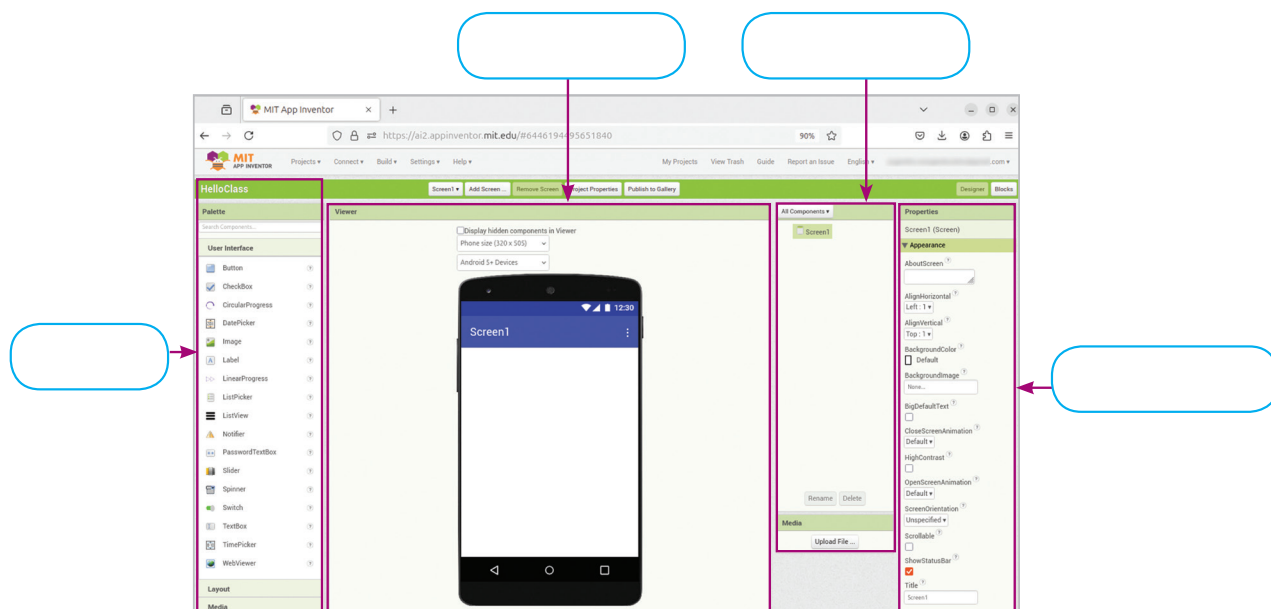
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APP DEVELOPMENT

A. Give two examples of each:

1. Gaming app:
2. Communication app:
3. E-commerce app:
4. Hybrid App:
5. Desktop applications:
6. Mobile application:
7. Entertainment apps:

B. Label the components of Project Designer window.



ALGORITHMIC INTELLIGENCE

A. Write the result for the following conditions if num1 is 500 and num2 is 400:

```
IF (num1 > 250) OR (num2 > 250) THEN
    PRINT "BURGER"
ELSE
    PRINT "PIZZA"
```

```
IF (num1 > 250) AND (num2 > 250) THEN
    PRINT "BURGER"
ELSE
    PRINT "PIZZA"
```

```
IF (num1 < 250) THEN
    PRINT "BURGER"
ELSE
    PRINT "PIZZA"
```

B. Write the output of the following programs:

1. Repeat 5 times

```
{
    READ Num1
    READ Num2
    IF num1 < num2 THEN
        PRINT "num2 is greater"
    ELSE
        PRINT "num1 is greater"
}
```

Num1	10	70	870	450	220
Num2	9	50	340	320	900
Print					

2. Repeat 4 times

```
{
    Read Marks
    IF Marks > 33 THEN
        PRINT "Pass"
    ELSE
        PRINT "Fail"
}
```

Marks	40	32	31	50	33
Results					

3. Repeat 5 times

```
(PRINT "8"
Move 1 right)
```

7	7	7	7	7	7

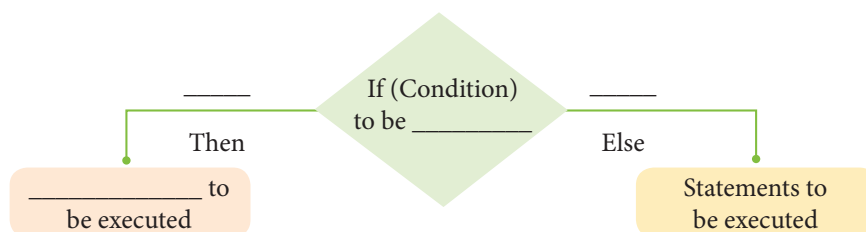
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ALGORITHMIC INTELLIGENCE

A. Complete the given conditional statement structure.



B. Answer the following questions:

1. Write an if condition to display "Qualified" or "Not Qualified" if the marks are greater than 75 and attendance is more than 80.

.....

.....

.....

2. Which statement can be used to result in true only if both conditions are true?

.....

.....

.....

C. Competency-based/Application-based question:

Your sister Vaishali wants to display "Yes" or "No" if the numbers from 1 to 50 is divisible by 5, also include first and the last number in calculation.

.....

.....

.....

.....

.....

.....

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LOOPS IN PYTHON

A. Tick (✓) the correct option.

1. Which of the following statements skips the current iteration of a loop?

- | | | | |
|----------|--------------------------|-------------|--------------------------|
| a. if | <input type="checkbox"/> | b. for | <input type="checkbox"/> |
| c. break | <input type="checkbox"/> | d. continue | <input type="checkbox"/> |

2. Which of the following statements is used when the number of repetitions is known?

- | | | | |
|------------------------|--------------------------|-----------------------|--------------------------|
| a. for statement | <input type="checkbox"/> | b. while statement | <input type="checkbox"/> |
| c. if...else statement | <input type="checkbox"/> | d. continue statement | <input type="checkbox"/> |

B. Write the output of the following programs:

1.

```
total_sum = 0
num = 1
while num <= 5:
    total_sum += num
    num += 1
print("The sum of numbers from 1 to 5 is:", total_sum)
```

2.

```
for num in range(1, 10):
    if num % 2 == 0:
        print(num)
```

3.

```
i = 0
while i < 5:
    print(i)
    i += 1
    if i == 3:
        break
else:
    print(0)
```

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LOOPS IN PYTHON

A. Fill in the blanks using the hints given below:

Hints: else, while, Iterative statements, sequence, range()

1. The statement executes a set of statements repeatedly, until the logical expression remains true.
2. The function is an in-built function of Python.
3. Python enables the use of statement with the while loop.
4. A is a succession of values bound together by a single name.
5. In Python, the statements that are used to repeat a set of instructions are called

B. Answer the following questions:

1. Write the syntax of the while loop.

.....

2. How does the range() function work in Python?

.....

C. Write a Python program to print the multiplication table of 19.

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LATEST TECHNOLOGICAL DEVELOPMENTS

A. Write a short note on the following:

1. Artificial Intelligence - _____

2. Data Science- _____

3. 3D Printing - _____

B. Match the following:

1. YouCam Makeup



2. Matterport



3. Snapchat



4. Sophia



5. Google Earth VR



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TOUCHPAD

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Chapter-11

CLASS 8

LATEST TECHNOLOGICAL DEVELOPMENTS

A. Guess who am I?

1. I am a humanoid robot that is the world's first robot citizen.
2. I am a robot used for emergency rescue operations.
3. I am a robot used to handle large tools on construction sites.
4. I am a robot dog that can develop emotional bonds with family members.

B. Fill in the blanks using the hints given below.

Hints: Edge computing, Google Glass, Google Earth, Tvasta, blockchain

1. is a complimentary approach to cloud computing.
2. created in 2013 is an example of wearable AR interface.
3. VR app lets you travel to any place on planet Earth and the moon.
4. is India's first 3D printed house which was created in 2020, in Chennai.
5. The duplicates and distributes a digital ledger of transactions across the entire network of computers.

C. Tick (✓) the correct option.

1. What does IoT stand for?

a. Internet of Technology	<input type="checkbox"/>	b. Internet of Things	<input type="checkbox"/>
c. Intelligence of Things	<input type="checkbox"/>	d. Internet Tracking	<input type="checkbox"/>
2. Which of the following is an AI-powered app for navigation?

a. Google Maps	<input type="checkbox"/>	b. Siri	<input type="checkbox"/>
c. Alexa	<input type="checkbox"/>	d. Sophia	<input type="checkbox"/>