

Name: \_\_\_\_\_

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Class: \_\_\_\_\_ Section: \_\_\_\_\_ Date: \_\_\_\_\_

## COMPUTER NETWORKING

### A. Name the following devices:



1. ....



2. ....



3. ....

### B. Define the following:

1. Client - .....
2. Server - .....
3. Router - .....

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

1. In Star topology, all the nodes are connected to a single common path.  
.....
2. CAN stands for Computer Area Network.  
.....
3. Networking refers to the geometric arrangement of computers or nodes in a network.  
.....
4. TCP/IP stands for Transmission Control Protocol/Internet Process.  
.....
5. In Star topology, all the nodes are connected in a circular path.  
.....





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## KRITA- IMAGE EDITING

### A. Identify the following tools of Krita:

1.  .....
2.  .....
3.  .....
4.  .....

### B. Guess who am I?

1. I am the place for creating and editing images. ....
2. I am used to apply color effects to the images. ....
3. I am used to set order of visibility of the objects. ....
4. I am the option which displays the zoom level of the workspace and size of the Krita file. ....

### C. Answer the following questions:

1. What is SVG text tool?  
.....  
.....
2. Differentiate between Contiguous and Freehand selection tool.  
.....  
.....

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## TRENDING TECHNOLOGIES

**A. Write the full form of the following abbreviations: Also, write the line about these technologies.**

1. AR: \_\_\_\_\_
2. VR: \_\_\_\_\_
3. RPA: \_\_\_\_\_
4. IoT: \_\_\_\_\_

**B. Identify the robot and write its feature.**

- a.  \_\_\_\_\_
- b.  \_\_\_\_\_
- c.  \_\_\_\_\_

**C. Answer the following questions:**

1. What kind of apps are Siri and Alexa?  
\_\_\_\_\_
2. What has eye-covering headset and headphones to completely replace the real world with the virtual one?  
\_\_\_\_\_
3. Describe any two robots.  
\_\_\_\_\_

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## IMAGES, LINKS & FRAMES IN HTML5

### A. Complete the sentences.

1. A link that connects to another place on the same web page is called an .....
2. HTML allows you to insert images inside the web pages through the .....
3. Height attribute of <IMG> tag specifies the .....
4. Action attribute of <FORM> tag is used to specify .....
5. JPEG stands for .....

### B. Write a short note on the following:

1. <FORM> - .....
2. Anchor Tag - .....
3. Hyperlink - .....
4. <IFRAME> - .....

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

1. The ALT attribute specifies the source or URL of the image that has to be inserted in the web page.  
.....
2. Images cannot be used as Hyperlink.  
.....
3. We cannot create internal linking in HTML web pages.  
.....
4. The <TEXTAREA> tag is used to create a form that can accept long text values.  
.....
5. The <video> tag allows us to add checkbox to a website  
.....

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Chapter-5

CLASS 8

## FORMS IN HTML5

### A. Find the errors in the following HTML codes:

- `<INPUT VALUE="BUTTON" TYPE="Log IN">`
- `<OPTION NAME="List">`  
`<SELECT>Mango`  
`<SELECT>Orange`  
`<SELECT>Grapes`  
`</OPTION>`
- `<PASSWORD NAME="PASSWORD" VALUE="PASS">`

### B. Answer the following questions.

- Name any two attributes of the `<FORM>` tag.

.....

.....

- Explain any two attributes of the `<INPUT>` tag.

.....

.....

- Explain the `<TEXTAREA>` tag.

.....

.....

### C. Competency-based/Application-based question:

One of your friends created a website to expand his father's business. He added details about the business, and images to make it look more attractive. He wants to add a toggle switch where users can select a desired choice regarding the business. However, he has been struggling to do so. How will you help him with this problem?

.....

.....

Grade:



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Chapter-6

CLASS 8

## ALGORITHMIC INTELLIGENCE

A. Write the result for the following conditions if num1 is 600 and num2 is 800:

**If** (num1 > 500) **OR**  
(num2 > 500)  
**Then**  
Write "GREATER"  
**Else**  
Write "SMALLER"

**If** (num1 > 500) **AND**  
(num2 > 500)  
**Then**  
Write "GREATER"  
**Else**  
Write "SMALLER"

**If** (num1 < 500)  
**Then**  
Write "GREATER"  
**Else**  
Write "SMALLER"

B. Answer the following questions:

1. Write the difference between the following with an example of each:

a. AND condition and OR condition

.....

b. counting loop and a conditional loop

.....

2. Write a program to check whether a given number is negative or positive. If the number is positive, then print "Positive number". If the number is negative, then print "Negative number".

.....

.....

C. Competency-based/Application-based question:

Lokesh has created a program in which he has written blocks of code multiple times to cover the path ten times if a given condition is right. What can he used to reduce the lines of code in his program?

.....

.....

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## LOOPS IN PYTHON

### A. Define the following.

1. break statement - .....
2. while statement - .....
3. for loop - .....

### B. Fill in the blanks.

1. The ..... statement is used to repeat a set of instructions until a condition evaluates to true.
2. The print() function to ..... output on the screen.
3. The ..... statement forces execution of next iteration.
4. The ..... function is an in-built function that generates a list which is a sequence type.
5. The ..... function is used to repeat an instruction or a set of instructions a fixed number of times.

### C. Write a python program to input strings from the users and concatenate them.

.....

.....

.....

.....

.....

.....

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## FUNCTIONS AND STRING IN PYTHON

### A. Define the following.

1. User-Defined Functions - .....
2. String - .....
3. Escape Sequence - .....

### B. Fill in the blanks.

1. .... helps us to break our program into smaller pieces or modules.
2. The capitalize() function returns a string with the first character in .....
3. The ..... operator is used to repeat the string for a given number of times.
4. We can access the characters of a string one at a time using .....
5. The ..... function converts all lowercase letters to uppercase.

### C. Write a program to print the sum of first 10 natural numbers using functions.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....



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## LIST IN PYTHON

### A. Match the methods with their use.

- |              |  |
|--------------|--|
| 1. extend()  | a. Removes the first element from the list.                                      |
| 2. append()  | b. Reverses the order of the elements in the list.                               |
| 3. remove()  | c. Adds the element at the end of the existing list.                             |
| 4. sort()    | d. Returns the occurrence (number of times) of a particular element in the list. |
| 5. reverse() | e. Sorts all the elements in the list.   |
| 6. count()   | f. Adds more than one element to the end of the existing list.                   |

### B. What will be the output of the following:

- ```
list1=[25,20,15,40,25,30]
print(list1[2:])
```

.....
- ```
list1=[73, 95, 141, 113, 182]
list1.insert(1, 302)
print(list1)
```

.....
- ```
list1=[133, 25, 49, 63, 82]
list1.append(19)
print(list1)
```

.....
- ```
list1=[13, 75, 81, 93, 82]
print(list1[4])
```

.....

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## DOMAINS OF AI

### A. Answer the following in one or two words.

1. Which domain of AI checks the sender of the email and categorises the mails as spam or junk?
2. Name any 2 domains of AI.
3. AI's ability to work so well with data analytics is because of which domain of AI?
4. What is used in production lines to detect small cracks or defects in parts that are normally undetectable by the human eye?

### B. Write 'T' for true and 'F' for false.

1. Everyday human intelligence processes a lot of phenomena that affects the quality of decisions taken by humans. ....
2. Humans spend a large amount of time and effort to analyse and filter data, but AI systems can manage and organise huge volumes of data in much less time. ....
3. Humans have the tendency to get bored while performing repetitive tasks, which can improve their productivity. ....
4. From recognizing to processing the live action of a football game, NLP challenges and surpasses human visual abilities in many areas. ....

### C. Answer the following questions:

1. Mention any three advantages of AI in detail.

.....

2. Explain the applications of Big Data.

.....

3. How is Computer Vision helpful to us?

.....

4. What are the real-life applications of NLP?

.....

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## FUTURE OF AI

### A. Match the following:

1.



a. Smart homes and cities

2.



b. AI Algorithms in equity funds

3.



c. Surveillance System

### B. Explain the use of AI in the following fields:

1. AI in Education .....
2. Health Care Industries .....
3. AI in Military and Cybersecurity .....