WORKSHEET

NETWORKING CONCEPTS

A. Define the following.

1. Modem: ....

2. Hub: ....

3. Server: ....

B. Tick (✓) the correct option.

1. Which networking device can convert the digital data into analog signal and vice versa?

   a. Hub ☐　　　b. Modem ☐　　　c. Router ☐　　　d. LAN Card ☐

2. Which of these is not a protocol?

   a. HTTP ☐　　　b. HTTPS ☐　　　c. FTP ☐　　　d. HTML ☐

3. Which of these is the Internet standard protocol that allows clients to retrieve e-mail messages from an e-mail server?

   a. HTTP ☐　　　　　　　　b. FTP ☐

   c. POP3 ☐　　　　　　　　d. None of these ☐

4. Which of the following is a wireless communication technology?

   a. Bluetooth ☐　　　　　　b. Wi-Fi ☐

   c. Both a and b ☐　　　　　d. None of these ☐

C. Write the full form of the following.

1. HTTP : ....

2. MAN: ....

3. NIC: ....

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Chapter-2

CLASS 8

ANIMATIONS IN KRITA

A. Tick (✓) the correct option.

1. Which of the following is used to switch to the Animation mode?

   a. Choose workspace   b. Workspace

   c. Settings   d. Timeline

2. Which of the following is used to control and manage the animation of different objects and layers?

   a. Timeline   b. Layer

   c. Oval   d. None of these

3. Which of the following are special frames where some change is defined in the properties of an object?

   a. Blank Frames   b. Keyframes

   c. Layers   d. All of these

B. Match the following:

1. Stage   a. Special frames where some change is defined

2. Timeline   b. Animation's Workspace

3. Keyframe   c. A rectangle section which is used to control and manage the animation

C. Create animated traffic lights using Krita and write the steps in the space given below.

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DYNAMIC WEB PAGES IN HTML5

A. Write any 3 features of JavaScript.

....

....

....

....

B. Write a program to calculate the product of three numbers using JavaScript.

....

....

....

....

....

....

....

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

1. Keyword is reserved word for storage location in JavaScript. ....

2. We save the JavaScript program with .docx extension. ....

3. A variable name cannot be a reserve keyword. ....

4. Prompt() is used to print the result in any program. ....

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LATEST IT TRENDS

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

Hints: consumers, E-commerce, Credit cards, Binder 3D Printing, coloring book

1. .... platforms help different people to connect and trade goods and services.

2. There are various websites that allow buying and selling between the ....

3. .... are the most popular way of payment for transactions in e-commerce

4. Disney Research developed a .... with AR.

5. .... uses nozzles and 2 materials which come together to act as a glue.

B. Answer the following questions.

1. What is Photo-polymerization?

   ....

2. Write a short note on Pattern recognition.

   ....

3. What do you mean by Rapid prototyping?

   ....

4. What is RPA? Explain.

   ....

C. Match the following.

1. Industry	a.	Application
2. Financial service	b.	Premium information
3. Telecom	c.	Checking frauds
4. Insurance	d.	Service order management

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Chapter-5

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CLOUD COMPUTING

A. Match the following.

1. Owned by single company		a.	Community Cloud
2. Owned by third party		b.	Private Cloud
3. Includes both public and private Clouds		c.	Public Cloud
4. Group sharing common interests		d.	Hybrid Cloud

B. Write the steps for uploading files on OneDrive.

....

....

....

....

C. Define the following Cloud service providers.

1. iCloud: ....

....

2. DropBox: ....

....

3. OneDrive: ....

....

WORKSHEET

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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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CLASS 8

CONTROL STRUCTURES IN PYTHON

Chapter-7

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

Hints: false, if, true, else

1. The .... statement is the simplest conditional statement.

2. In Python, the non-zero value is interpreted as ....

3. Decision statements may give the results true or ....

4. The .... block will be executed if and only if the provided condition evaluates to false.

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

1. The if…else statement is the simplest conditional statement.   ....

2. Python does not allow nested if statement.   ....

3. The if…elif…else ladder not a conditional statement in Python.   ....

4. The if statement executes a command if the provided condition evaluates to true.   ....

5. The if...elif...else statement allows you to test multiple conditions.   ....

C. Answer the following questions.

1. What is decision making statement?

   ....

   ....

2. Write the syntax for the if…elif…else statement.

   ....

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WORKSHEET

Chapter-8

CLASS 8

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FUNCTIONS, STRING AND LIST IN PYTHON

A. Tick (✓) the correct option.

1. Which of the following is not a component of Python function?

   a. Arguments ☐ b. Statements ☐

   c. Loops ☐ d. Return value ☐

2. Which of the following is used to enclose a string in Python?

   a. ' ' ☐ b. " " ☐

   c. Both a and b ☐ d. None of these ☐

3. Which function returns a string with the first character in capital?

   a. upper() ☐ b. lower() ☐

   c. capitalize() ☐ d. None of these ☐

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

Hints: multiline string, inbuilt, element

1. The range() function is an .... function of Python.

2. .... in Python begins and ends with either three single quotes or three double quotes.

3. A list can have a list in itself as an ....

C. Answer the following questions.

1. How do you access a list?

   ....

2. What is the use of extend() function?

   ....

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ARTIFICIAL INTELLIGENCE AND ITS DOMAINS

A. Define the following.

1. Artificial Intelligence : ....

   ....

2. Super AI: ....

   ....

3. Data: ....

   ....

B. Fill in the blanks.

1. IBM's .... became the first computer program to defeat a world champion in a chess match.

2. Weather prediction models using AI need data such as..................... .

3. Machine learning is a core subject area of ....

4. .... are designed and manufactured to perform tasks that are difficult to perform by humans.

C. Answer the following questions.

1. Write the name of two fields in which the Artificial Intelligence is being successfully implemented.

   ....

2. What does CNN stands for?

   ....

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FIELDS OF ARTIFICIAL INTELLIGENCE

A. Write a short note on AI in following Apps.

1. Socratic

....

....

2. Fyle

....

....

3. Alexa

....

....

B. Write any four benefits of smart home.

....

....

....

....

C. Write any four benefits of smart cities.

....

....

....

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INTRODUCTION TO SDGs AND DATA SCIENCE

A. Define the following.

1. Four V's of Big Data

   ....

   ....

2. Tableau

   ....

   ....

3. Role of Data Scientist

   ....

   ....

4. Predictive Analysis

   ....

   ....

B. Write a short note on SDG 17.

   ....

   ....

   ....

C. Write a short note on SDG 09.

   ....

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