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NUMBER SYSTEM

A. Complete the sentences.

1. The base of decimal number system is
2. The position of first digit towards left side of the decimal point is
3. The most widely used number system is
4. A binary number is made up of only
5. Hexadecimal number system provides shortcut method to represent
6. Binary addition is similar to the addition of

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

1. The word binary comes from 'Bi-' meaning three.
.....
2. We cannot perform the addition operation on binary numbers.
.....
3. The letters A to F represent the decimal numbers from 12 to 17 in hexadecimal number system.
.....
4. A single binary digit (like '0' or '1') is called a 'byte'.
.....
5. The octal number system consists of eight digits from 1 to 8.
.....

C. Read the clues and answer the following:

1. It contains a decimal point.
2. It uses the digits 0 to 7.
3. It consists of 16 digits.
4. It is simply a manner of counting.
5. It is used as a shorthand representation of long binary numbers.

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COMPUTER NETWORKING

Chapter-2

CLASS 8

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 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.

.....

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PHOTO EDITOR AND VIDEO EDITOR

Chapter-3

CLASS 8

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

Hint: Import, Background, Colour

1. To edit photos in Photos app, first of all you click on Button.
2. Adjust the colours of the photo by moving the slide.
3. You can change the background color of the title card by clicking on the button.

B. Match the following:

- | | |
|---------------|--|
| 1. Trimming | a. means to cut the portion of a video. |
| 2. 3D effects | b. means to remove the useless portion of the photo. |
| 3. Cropping | c. make a video attractive. |

C. Number the steps to add 3d effects in a video.

- ☐ 1. Open a video in the storyboard. In this case, we have opened a cake video.
- ☐ 2. Select the 3D effect that you want to add to your video. In this case, we have selected Birthday balloons effect.
- ☐ 3. Click on the 3D effects button. A pane containing 3D effects appears at the right-hand side.
- ☐ 4. Click on the Done button.
- ☐ 5. Set the duration of the effect by moving the slide on the time line.

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INTRODUCTION TO TUPI 2D

Chapter-4

CLASS 8

A. Rewrite the incorrect statements.

1. Ink tool helps us to draw those shapes which we can not draw with shape tools.

.....

2. Brush tool is used to select an oval or circular portion of an image.

.....

3. Pencil Tool is used to remove unwanted portion from an image.

.....

4. Line Tool is used to draw closed shapes with 3, 5, 6 or more sides.

.....

5. Object Selection tool can be selected in different layers or frames using this tool.

.....

B. Number the steps to fill the colour in any object using Fill tool.

- ☐ Click on the object to fill colour in the object.
- ☐ Go to the Color Palette and click on the Fill box.
- ☐ Click on the Fill Tool option from the Toolbox.
- ☐ Draw any object in the workspace area.

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

Hints: Polyline, Pencil tool, Paint bucket, Ink

1. tool is used by the users to draw in different colour ink.
2. is also called free hand drawing tool.
3. Fill tool works like a
4. tool helps to draw different shapes and diagrams in the workspace area.

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ANIMATIONS IN TUPI 2D

Chapter-5

CLASS 8

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

1. Scale tween helps to move an object.

.....

2. Rotation tween changes the object's horizontal and vertical shear.

.....

3. Frame is a feature that helps us to make animation process easier and faster.

.....

4. Coloring tween helps to control the opacity of an object at two points.

.....

5. Rotation tween helps to rotate an object only clockwise.

.....

B. Define the following:

1. Exposure Sheet -

.....

2. Insert frame button -

.....

3. Shear tween -

.....

4. Layers -

.....

5. Frame span -

.....

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LATEST TECHNOLOGICAL DEVELOPMENTS

A. Write a short note on the following:

1. Artificial Intelligence - _____

2. Virtual Reality - _____

3. 3D Printing - _____

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

Hints:

1. IBM's _____ became the first computer program to defeat a world champion in a chess match.
2. _____ is an I-App.
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. Name two 3D Printing methods.

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IMAGES, LINKS AND 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 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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COMPUTER SAFETY AND SECURITY

Chapter-8

CLASS 8

A. Explain the following:

1. Optical mouse - _____

2. Face Recognition - _____

3. Decryption - _____

4. Spyware - _____

B. Match the following:

- | | |
|----------------------|---------------------------------|
| 1. Rootkit | a. Antivirus |
| 2. Norton | b. Malware |
| 3. Firewall | c. Program in the Control Panel |
| 4. Disk Defragmenter | d. Network security system |

C. Write the names of four online backup services.

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

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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 using the hints given below:

Hints: Continue, While, Range(), Display, for

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 print all the ['a', 'e', 'i', 'o', 'u'] in a user inputted string.

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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?
.....