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Class: _____ Section: _____ Date: _____

COMPUTER NETWORKING

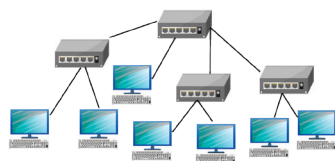
A. Circle the correct option.

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 larger 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 below images:



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COMPUTER NETWORKING

Chapter-1

CLASS 8

A. Define the following:

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

B. Tick (✓) the correct option.

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

a. Hub <input type="checkbox"/>	b. Modem <input type="checkbox"/>
c. Router <input type="checkbox"/>	d. LAN Card <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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INTRODUCTION TO ADOBE PHOTOSHOP CC

A. Tick (✓) the correct option.

- tool works like a pencil.

a. Polygonal Lasso Tool	<input type="checkbox"/>	b. Lasso Tool	<input type="checkbox"/>
c. Magnetic Lasso Tool	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- tool is not found in the Tools panel.

a. Gradient	<input type="checkbox"/>	b. Crop	<input type="checkbox"/>
c. Layer	<input type="checkbox"/>	d. Brush	<input type="checkbox"/>
- Which of these tabs is not available in the New Document dialog box, while creating an new file in Photoshop?

a. Photo	<input type="checkbox"/>	b. Print	<input type="checkbox"/>
c. Web	<input type="checkbox"/>	d. Update	<input type="checkbox"/>
- tool helps you to add text to a Photoshop document.

a. Paint Bucket Tool	<input type="checkbox"/>	b. Type Tool	<input type="checkbox"/>
c. Pencil Tool	<input type="checkbox"/>	d. Brush Tool	<input type="checkbox"/>
- Which of these options help in selecting the range of color and replacing it with the foreground color?

a. Tolerance	<input type="checkbox"/>	b. Limits	<input type="checkbox"/>
c. Anti-aliasing	<input type="checkbox"/>	d. Flow	<input type="checkbox"/>

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

Hints: Pixels, Photoshop CS6, return, .psd, Application

- Photoshop CC is the updated version of Adobe
- are the tiny dots on the computer screen.
- Extension of Photoshop file is
- To complete the selection, to the spot where you began and release the mouse button.

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INTRODUCTION TO ADOBE PHOTOSHOP CC

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

1. Perspective Crop Tool helps with the distortion of an image caused by angled surfaces.
2. Transform Tool can be found in the Edit menu on the Menu Bar.
3. You can insert an image into an existing file by clicking on the Place Embedded option from the Edit menu.
4. Solid background can be created with the help of the Ink Bottle Tool.
5. While using Color Replacement Tool, Sampling Continuous option replaces all the colors with the foreground color.

B. Answer the following questions:

1. What is the use of Adjustments Panel?
.....
2. Define the Ink bottle Tool.
.....
3. What do you mean by Timeline panel?
.....
4. What is the use of move tool?
.....
5. Name any 4 tools from the toolbar.
.....
6. Write any four features of Adobe Photoshop CC.
.....

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MORE ON PHOTOSHOP CC

A. Tick (✓) the correct option.

- command lets you add a few cushion pixels at the border of objects in your photos.

a. Calculation	<input type="checkbox"/>	b. Apply image	<input type="checkbox"/>
c. Trap	<input type="checkbox"/>	d. Flow	<input type="checkbox"/>
- tool repairs larger areas of an image by getting rid of any distraction or blemishes.

a. Patch Tool	<input type="checkbox"/>	b. Healing Brush Tool	<input type="checkbox"/>
c. Content Aware Move Tool	<input type="checkbox"/>	d. Eraser Tool	<input type="checkbox"/>
- tool makes all comparable pixels transparent.

a. Eraser Tool	<input type="checkbox"/>	b. Magic Eraser Tool	<input type="checkbox"/>
c. Background Eraser Tool	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- tool helps in putting textures as the background on canvas.

a. Pattern Stamp Tool	<input type="checkbox"/>	b. Stamp Tool	<input type="checkbox"/>
c. Sponge Tool	<input type="checkbox"/>	d. Blur Tool	<input type="checkbox"/>

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

Hints: numeric ,flashlight, contrast, first

- When you open a file in Photoshop, the layer created is the background layer.
- The info panel shows the value of the color.
- Red Eye is a condition created by the from camera.
- To increase the of pixels and focus on an image, we use sharpen tool.

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

- Sponge Tool soaks up the color an image.
- Brush Tool can create straight and curved lines, remove objects, design shape, etc.

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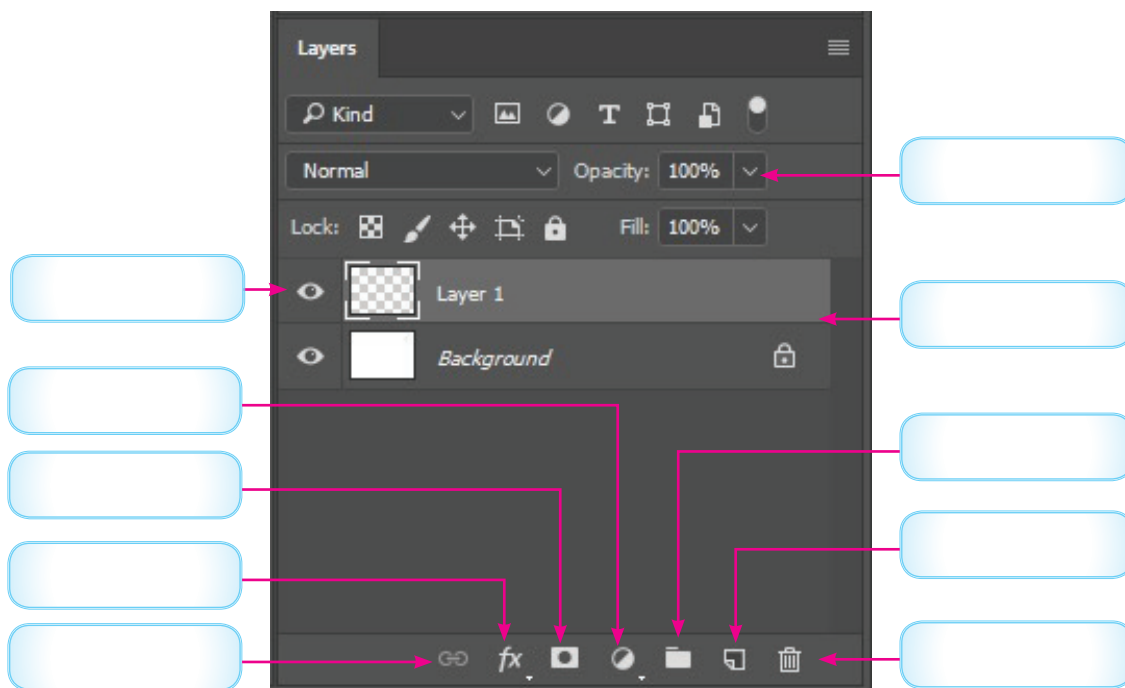
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MORE ON PHOTOSHOP CC

A. Write the names of any three navigation and shape tools.

- | | | |
|---------|---------|---------|
| 1. | 2. | 3. |
| 4. | 5. | 6. |

B. Label the components of Layers panel.



C. Answer the following questions:

- What is the use of the Burn Tool?
.....
- Give any two uses of the pen tool.
.....
- What is the use of smudge tool in Photoshop?
.....

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COMPUTER SAFETY AND SECURITY

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

1. Encrypted data can be easily understood.
2. Computer safety refers to the protection of computer based resources against unauthorised use.
3. Antivirus is used to eradicate virus from the computer system.
4. Authentication is the process of verifying a user's identity before granting him or her access to a computer system.

B. Tick (✓) the correct option.

1. Which of the following keeps malicious software away from your computer?

a. System Software	<input type="checkbox"/>	b. Operating System	<input type="checkbox"/>
c. Antivirus	<input type="checkbox"/>	d. All of these	<input type="checkbox"/>
2. Which of the following is used to keep backups of data?

a. UPS	<input type="checkbox"/>	b. External Hard Drive	<input type="checkbox"/>
c. Mouse	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
3. is type of malware?

a. Encryption	<input type="checkbox"/>	b. Trojan Horse	<input type="checkbox"/>
c. AVG	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>

C. Guess who am I?

1. My name resembles a micro organism. My prime motive is not to cause damage but clone myself on the host system.
2. I specialise in concealing myself. Though, I belong to cyber world but my name has its roots in Greek mythology.
3. I do not collect information from the computer. I wait for the hacker to give me commands.

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COMPUTER SAFETY AND SECURITY

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

Hints: biological, malicious, encrypted, decryption, spyware

1. _____ software is known as malware.
2. Recognition of _____ characteristics is an example of biometric authentication.
3. Decryption is the process of converting _____ data into a readable form.
4. Encryption is the opposite of _____.
5. Zombie in a similar way as the _____.

B. Answer the following questions.

1. State the types of authentication.

2. Explain the working of Trojan horse in brief.

3. State any 4 examples of antivirus programs.

4. What is ransomware?

5. What are some authentication procedures to protect our computer from illegal access?

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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: saved, Google Maps, Alphabet incorporation, encoding , Share

1. In December 2019, Sundar Pichai became the CEO of
2. Encryption is the process of a message or file so that it can only be accessed by authorized people.
3. The icon generate a link of your document for sharing and giving access.
4. The three kinds of views are satellite, terrain and map.
5. Changes made to the Google Docs are automatically when working online.

C. Guess who am I?

1. I am an online version of Microsoft PowerPoint developed by Google in 2006.
2. I am a video sharing application where users can upload their videos, share, comment, watch and like other videos.
3. I am a spreadsheet application introduced by Google on March 9, 2006.
4. I am the tag line of YouTube.
5. I am a cloud-based storage service that can store all types of files such as photos, videos, PDFs, Microsoft Office files and many more.

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GOOGLE APPS

A. Tick (✓) the correct option.

- Which of the following apps is used to make presentation?

a. Gmail	<input type="checkbox"/>	b. YouTube	<input type="checkbox"/>
c. Slides	<input type="checkbox"/>	d. Sheets	<input type="checkbox"/>
- Which of the following is a type of social media application?

a. Facebook	<input type="checkbox"/>	b. YouTube	<input type="checkbox"/>
c. Slides	<input type="checkbox"/>	d. Sheets	<input type="checkbox"/>
- Which of the following is not a Google app?

a. Slides	<input type="checkbox"/>	b. Facebook	<input type="checkbox"/>
c. YouTube	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- We use Set Permissions option in Google Sheets to

a. Protect Sheets	<input type="checkbox"/>	b. Delete Sheets	<input type="checkbox"/>
c. Withdraw Protection	<input type="checkbox"/>	d. All of these	<input type="checkbox"/>
- Which of the following actions cannot be performed on YouTube?

a. Video uploading	<input type="checkbox"/>	b. Watching video	<input type="checkbox"/>
c. Sending an email	<input type="checkbox"/>	d. Saving a video	<input type="checkbox"/>

B. Answer the following questions.

- State two uses of Google maps.

.....

- What is Gmail?

.....

- State any two benefits of Google Docs.

.....

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LATEST TECHNOLOGICAL DEVELOPMENTS

A. Tick (✓) the correct option.

- Which of the following is not an application of AI?

a. Expert system	<input type="checkbox"/>	b. Natural Language Processing	<input type="checkbox"/>
c. 3D Printing	<input type="checkbox"/>	d. Robotics	<input type="checkbox"/>
- Which of the following app uses GPS location of the smartphone and the camera to collect information about the user's surroundings?

a. Star Walk	<input type="checkbox"/>	b. Layar	<input type="checkbox"/>
c. Mimo	<input type="checkbox"/>	d. Compass	<input type="checkbox"/>
- Which of the following devices has a camera that recognizes and tracks the users hand gestures with the help of computer-vision techniques.

a. SixthSense	<input type="checkbox"/>	b. Google Glass	<input type="checkbox"/>
c. Oculus Rift	<input type="checkbox"/>	d. Mimo	<input type="checkbox"/>
- Which of the following terms represents a system of connected computing devices?

a. VR	<input type="checkbox"/>	b. IoT	<input type="checkbox"/>
c. RPA	<input type="checkbox"/>	d. AR	<input type="checkbox"/>

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

- Apps are software written for mobile devices based on robotics and machine learning technology.
- Facial recognition software and video surveillance cameras are examples of pattern recognition software.
- 3D Printing was first developed at MIT (Massachusetts Institute of Technology) in the 2005.
- Robotic automation creates a new IT structure with complex system integrations.

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LATEST TECHNOLOGICAL DEVELOPMENTS

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

Hints: AI, Virtual, RP, Augmented Reality, RPA

- _____ is the blending of Virtual Reality and real life.
- The purpose of _____ is to transfer the execution of the process from humans to robots.
- Shakey was the first robot to use _____ to navigate.
- In Virtual Reality, a _____ world is created that users can interact with.
- _____ method is used to create models to quickly test a new product before mass production.

B. Answer the following questions:

- State any 2 uses of AI.

- What is the use of Pattern Recognition?

- Explain RPA briefly.

- What is 3D printing?

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-7

CLASS 8

IMAGES, LINKS AND FRAMES IN HTML5

A. Circle the correct option.

1. HTML allows you to insert images inside the web pages through the (/ <IMAGE>) tag.
2. The (ALT / SRC) attribute specifies the source or URL of the image that has to be inserted in the web page.
3. HTML (allows / does not allows) you to divide a browser window into many sections or parts.
4. We (can / cannot) add audio and video on a HTML web page.
5. Hyperlink text is generally seen in (blue / green) color.

B. Read the clues and answer the following:

1. It is an attribute that is used to specify the identity of the field on the web page.
.....
2. It is an attribute that is used to specify the default value of the field.
.....
3. It is a tag used for creating links, that is, hyperlinking in HTML web pages.
.....
4. It is an attribute that specifies the thickness of the border surrounding the image.
.....
5. It is a value used to create a check box control.
.....

C. Write the HTML code to create a Web page that has different sections or parts using <IFRAME> tag.

.....
.....

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IMAGES, LINKS AND FRAMES IN HTML5

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 of the following attributes of the <FRAME> tag is used to specify the URL of the web page which you want to display in the frame?

a. SRC	<input type="checkbox"/>	b. HEIGHT	<input type="checkbox"/>
c. WIDTH	<input type="checkbox"/>	d. NAME	<input type="checkbox"/>
- Which of the following file formats are currently supported to embed audio?

a. MP3	<input type="checkbox"/>	b. WAV	<input type="checkbox"/>
c. Both a and b	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>

B. Write the tag to:

- Create a multiline text box that can accept long text values.
- 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 red.
- We can specify the width and height of an image in a web page.
- PNG image file format stands for Portable Ink Group.
- The <INPUT> tag is used to create external linking between web pages.

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ALGORITHMIC INTELLIGENCE

A. Tick (✓) the correct option.

1. Which of the following is drawn before creating a program?

a. Chart

☐

b. Scenery

☐

c. Flowchart

☐

d. Syntax

☐

2. What does a flowchart represent?

a. program

☐

b. algorithm

☐

c. symbol

☐

d. none of these

☐

3. Which of the following is not a symbol used in flowcharts?

a. Process

☐

b. Start/Stop

☐

c. Input/Output

☐

d. Control

☐

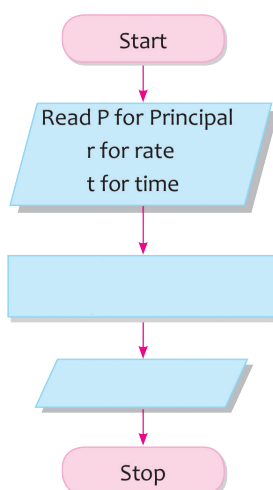
B. Write 'T' for true and 'F' for false.

1. Flowchart uses various symbols to show the process flow of the program.

2. In flowcharts, process box is used to show the branches in the process flow.

3. Algorithms and Flowcharts are different.

C. Complete the flowchart to calculate the simple interest.



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ALGORITHMIC INTELLIGENCE

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




Hints: Mind Map, Left to right, Flowcharts, Sequential, Process

1. An algorithm is a collection of steps in a manner.
2. Maintain the direction of the flow from or top to bottom.
3. is also a problem solving technique that allows us to organise ideas, thoughts etc.
4. shows the sequence of instructions in a single program.
5. Flow Line shows the direction in which the flows.

B. Answer the following questions.

1. What is a Mind Map?
.....
2. What is an algorithm?
.....
3. Give two advantages of flowcharts.
.....

C. Match the symbols with their functions used in flowcharts.

- | | |
|--|---|
| 1.  | a. Shows a process or action step |
| 2.  | b. Indicates a question or branch in the process flow |
| 3.  | c. Start and stop points of the flowchart |

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LOOPS IN PYTHON

A. Tick (✓) the correct option.

- Which of the following is a conditional statement in Python?

a. for statement	<input type="checkbox"/>	b. while statement	<input type="checkbox"/>
c. if statement	<input type="checkbox"/>	d. break statement	<input type="checkbox"/>
- Which of the following statements are used when the number of repetitions are 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"/>
- 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"/>

B. Write the output of the following programs:

1. `i = 0`
`while i < 3:`
`print (i)`
`i += 1`
`else:`
`print (0)`

2. `fruits = ["apple", "banana", "cherry"]`
`for x in fruits:`
`print(x)`

3. `i = 2`
`while i < 10:`
`print(i)`
`if i == 8:`
`break`
`i += 2`

4. `number = ["fifty", "hundred", "thousand"]`
`for x in number:`
`print(x)`
`if x == "hundred":`
`break`

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LOOPS IN PYTHON

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

Hints: infinite, break, while, continue, non-zero, zero

1. The statement executes a set of statements repeatedly, until the logical expression remains true.
2. Any value in the while loop indicates an always true condition whereas zero indicates condition.
3. The loop never ends.
4. The and are the jump statements in Python.

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

1. We cannot use do-while loop in Python.
2. The break statement breaks the loops one by one.
3. The continue is a keyword in Python which is used for bringing the program control out of the loop.
4. A single break statement will skip the current iteration of loops.
5. The switch statement is the looping statement.

C. Answer the following questions.

1. What are jump statements?
.....
2. Write the syntax of the 'for loop'.
.....
3. Demonstrate the use of the while loop using else statement.
.....

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FUNCTIONS AND STRING IN PYTHON

A. Tick (✓) the correct option.

- Which of the following is not a component of Python function?

a. Name of the function	<input type="checkbox"/>	b. Arguments	<input type="checkbox"/>
c. Return Value	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Which of the following function is used to returns the length of the string?

a. len()	<input type="checkbox"/>	b. lower()	<input type="checkbox"/>
c. upper()	<input type="checkbox"/>	d. capitalize()	<input type="checkbox"/>
- Which of the following operator is used to replicate the string for a given number of times?

a. -	<input type="checkbox"/>	b. *	<input type="checkbox"/>
c. +	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>

B. Write the output of the following programs:

1. `a = "String"`
`b = "Concatenation"`
`c = a + b`
`print(c)`

2. `a = "Rakul"`
`b = a * 5`
`print(a)`

3. `a = "Functions"`
`print(len(a))`
`print("Functions".lower())`
`print("Functions".upper())`
`print("Functions".capitalize())`

4. `def printvowels(string):`
 `for char in string:`
 `if char in "aeiouAEIOU":`
 `print(char, end=',')`
 `return char`
`string = 'This is a computer output program.'`
`printvowels(string)`

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FUNCTIONS AND STRING IN PYTHON

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

Hints: input(), String, multiline, traversing, print(), unique

1. A function name should be and easy to correlate with the task it will perform.
2. The and belong to the category of built-in functions.
3. may include a letter, number, special characters or a backslash.
4. A string in Python begins and ends with either three single quotes or three double quotes.
5. means visiting each element and processing it as required by the program.

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

1. We cannot call a function as many times as required.
2. User-defined functions are created by the user according to the need of the program.
3. Function blocks begin with the keyword followed by the function name and parentheses.
4. We cannot create our own functions in Python.
5. Strings can be created by enclosing characters inside single or double brackets.

C. Answer the following questions.

1. What is the difference between built-in functions and user-defined functions?
.....
2. Write two ways to traverse a string.
.....

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DOMAINS OF AI

A. Tick (✓) the correct option.

- Which of the following technology will be used to track player movements in cricket?

a. NLP	<input type="checkbox"/>	b. Machine Learning	<input type="checkbox"/>
c. Computer Vision	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- 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 time.

a. Less	<input type="checkbox"/>	b. More	<input type="checkbox"/>
b. Equal	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Which of the following domains of AI is used by a self-driving car?

a. Big Data	<input type="checkbox"/>	b. Computer Vision	<input type="checkbox"/>
c. Natural Language Processing	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>
- Which of the following have the tendency to get bored while performing repetitive tasks?

a. Humans	<input type="checkbox"/>	b. AI System	<input type="checkbox"/>
c. Both (i) & (ii)	<input type="checkbox"/>	d. None of these	<input type="checkbox"/>

B. Define the following.

- Artificial Intelligence
- Big Data
- Computer Vision
- Natural Language Processing

C. Answer the following questions.

- Write any two advantages of AI.

.....

- How is Big Data used in AI?

.....

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DOMAINS OF AI

Chapter-10

CLASS 8

A. Fill in the blanks.

1. AI enabled can explore in space, go underwater, help in digging and mining tasks.
2. Humans spend a large amount of time and effort to and filter data, but AI systems can manage and organise huge volumes of data in much less time.
3. Human intelligence is not proof, but AI systems are.
4. The speed at which humans take decisions is much than AI systems.
5. Self-driving cars use to examine their surroundings and plan its path.

B. State whether these statements are true or false.

1. Computer Vision is also used for security and surveillance.
2. Using data from many sources, AI can build a store house of knowledge that ultimately leads to accurate predictions about a consumer.
3. AI's ability to work so well with data analytics is because of its use of NLP.
4. Big Data is a subfield of AI which helps in communication between human and computer in natural language.
5. NLP checks the sender of the email and categorises the mails as spam or junk.

C. Assertion and reasoning based question.

1. Assertion (A): AI enabled machines/systems can explore in space, go underwater, help in digging and mining tasks.
2. Reason (R): The tasks that are considered dangerous for human beings can be easily handled by using AI enabled machines.
 - a. Both A and R are correct and R is the correct explanation of A.
 - b. Both A and R are correct but R is NOT the correct explanation of A.
 - c. A is correct but R is not correct.
 - d. A is not correct but R is correct.

Grade:



Teacher's Signature: _____