

Name: _____

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Class: _____ Section: _____ Date: _____

FUNDAMENTALS OF COMPUTER

A. Tick (✓) the correct option.

- computer is a special type of microprocessor-based system that is developed for performing a specific task.
 - Embedded` ☐
 - Mainframe ☐
 - Desktop ☐
- A computing device which we can wear on our wrist.
 - PDA ☐
 - Smartphone ☐
 - Smartwatch ☐
- is used to carry out a mechanical or electronic translation of handwritten text into machine encoded text.
 - MICR ☐
 - OCR ☐
 - OMR ☐

B. Fill in the blanks using the given words.

- computer uses digits (binary numbers 0's and 1's) to generate, process and display data. (Analog/Digital)
- lets the user guide on-screen elements using air gestures. (Barcode Reader/Motion Input)
- Printers that have direct contact between the printer head and paper are known as printers. (Impact/Non-Impact)

C. Match the following.

- | | |
|------------------|--|
| 1. Smartboard | a. Used for creating animated graphics |
| 2. MICR | b. Displays image on a connected computer screen via a projector |
| 3. ATM | c. Reads special characters on cheques |
| 4. Supercomputer | d. Embedded Computer |

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FUNDAMENTALS OF COMPUTER

A. Find the given words in the crossword below.

Microprocessor, Plotter, Tablet, Hybrid, Playstation

Y	U	T	R	E	D	F	C	X	Z	M	K
H	O	M	P	U	Y	T	R	E	W	X	C
V	B	I	N	H	F	T	A	B	L	E	T
P	D	C	G	T	Y	U	I	G	F	D	S
L	C	R	V	B	H	N	J	G	P	D	S
O	R	O	Y	U	Y	E	S	Z	L	C	B
T	H	P	T	S	B	G	Y	J	A	B	J
T	E	R	R	T	R	Y	U	I	Y	X	C
E	V	O	B	N	I	Y	F	D	S	H	J
R	G	C	Y	R	D	S	F	G	T	J	J
F	V	E	B	T	E	S	F	G	A	H	U
F	G	S	B	B	H	T	E	Q	T	Z	X
C	V	S	B	N	H	I	O	P	I	M	V
J	Y	O	I	Q	Z	X	C	F	O	S	H
G	T	R	V	L	J	H	T	I	N	X	V

B. Answer the following question.

1. What is a Plotter used for? Name the different types of Plotters.

.....

2. List some characteristics of a Laser Printer.

.....

3. What is an Optical Mark Reader used for?

.....

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FORMULAS AND FUNCTIONS IN EXCEL 2016

A. Tick (✓) the correct option.

- Any text entered in Excel is called
 a. Value ☐ b. Label ☐ c. Formula ☐
- A formula must always begin with
 a. + ☐ b. - ☐ c. = ☐
- These operators are used to combine a range of cells
 a. Comparison ☐ b. Arithmetic ☐ c. Reference ☐
- function rounds number to an integer value.
 a. INT(number) ☐ b. POWER(power) ☐ c. COUNT(range) ☐

B. Fill in the blanks.

- are numbers or text values that do not change. (Constants/References)
- A cell reference refers to a specific row or column. (Absolute/Mixed)
- By default, numeric values are always (right-aligned/ left-aligned)
- error means that cell reference is not valid. (#REF!/#Name?)

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

- Function must be followed by opening and closing parenthesis.
- ABS(number) returns the count of the number of values in the selected range.
- Concatenate joins together two or more different text strings.
- Numerical entries are treated as fixed values in Excel.

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FORMULAS AND FUNCTIONS IN EXCEL 2016

A. Complete the following table:

Error	Meaning	Troubleshooting Tip
#NUM!		Ensure there are no special symbols such as \$ or % being used with the number.
	Division by zero is an invalid operation.	Change the divider to non-zero value
#N/A		
	The cell reference is not valid.	
Operator	Function	Example
<=		
	Multiplication	= (L3 * 10) Multiplies the value in cell L3 by 10.
(Space)		
		L1:L6 Defines a range from L1 to L6.

B. Answer the following questions.

- What are Formulas in Excel? List some elements of a formula.
.....
- What is Cell Reference? Differentiate between Relative and Absolute Cell Referencing.
.....
- What are functions used for in Excel? What rules should we follow while using functions?
.....
- Name and define some Text functions.
.....

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CHARTS IN EXCEL 2016

A. Tick (✓) the correct option.

- describes the main purpose and content of the chart.
 - Title ☐
 - Legend ☐
 - Plot Area ☐
- makes it easier to read and understand the values.
 - Gridlines ☐
 - Plot Area ☐
 - x-axis ☐
- This chart displays continuous data at regular intervals.
 - Area Chart ☐
 - Line Chart ☐
 - Pie Chart ☐
- This chart shows the correlations between the two sets of values.
 - Scatter ☐
 - Doughnut ☐
 - Area ☐

B. Fill in the blanks using the given words.

- Charts in Excel is the pictorial representation of data and charts are also called
(Tables/Graphs)
- is group of data from which a chart is created. (Legend/Data Series)
- chart displays the relationship of parts to a whole. (Doughnut/Scatter)
- is also known as the category axis. (X-axis/Y-axis)

C. Answer in one word.

- It includes all objects and elements of a chart.
- A bar chart is also known as?
- Frequency polygon is another name for?
- This chart is useful when we want to emphasize on a significant element.

Name: _____

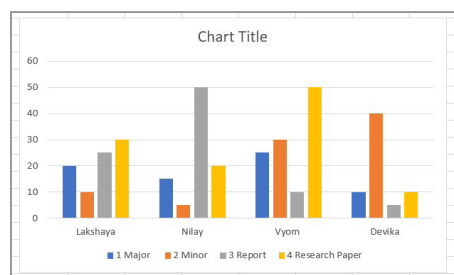
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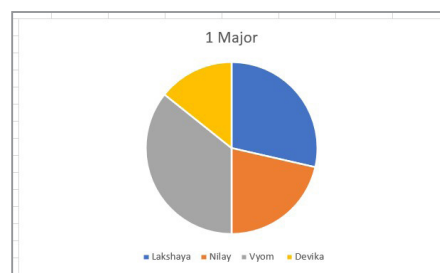
CHARTS IN EXCEL 2016

A. Identify the following types of different charts available in Excel

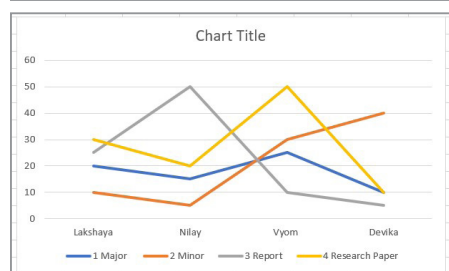
a.



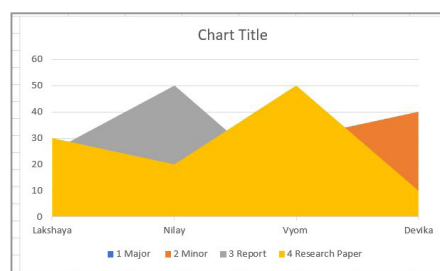
b.



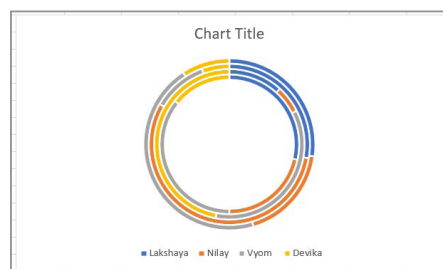
c.



d.



e.



B. Answer the following questions.

1. How can we set Data Range for a chart in Excel?

.....

2. What type of data is represented using Area Chart?

.....

3. What are gridlines?

.....

4. Differentiate between Pie and Doughnut Chart.

.....

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LEARN HTML5 AND CSS3

A. Tick (✓) the correct option.

- HTML documents are made up of text content and special codes known as
 - Hyper Text ☐
 - Tags ☐
 - Attributes ☐
- Which tag is used to insert a line break in an HTML document?
 - <p> ☐
 - <hn> ☐
 -
 ☐
- These tags come in pairs.
 - Empty ☐
 - Container ☐
 - Attributes ☐

B. Fill in the blanks using the given words.

- A paragraph can be aligned using the (Align attribute/ Tags)
- The specifies the element to which we want to apply the formatting. (Declaration/ Selector)
- of tags means that you can start a new tag before closing the previous tag. (Nesting/Declaring)
- editor allows the developer to see what the end result will look like when the document is created. (WYSIWYG/Text)

C. Write True or False.

- HTML5 is a case sensitive language.
- A combination of opening tag, content and closing tag is called an element.
- Container tags are self-contained.
- There should be no spaces between < and > in a tag.

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LEARN HTML5 AND CSS3

A. Find the given words in the crossword below.

Attribute, HyperText, Inline CSS, Empty Tag, Head

Y	U	I	O	H	B	N	M	K	G	C	B
H	I	N	L	I	N	E	C	S	S	H	N
M	H	G	F	X	C	V	B	T	E	Y	W
E	M	P	T	Y	T	A	G	T	Y	P	Z
M	N	B	V	F	D	T	Z	E	T	E	Y
H	H	J	Y	R	D	T	V	B	N	R	J
A	H	X	C	Q	E	R	R	T	Y	T	U
C	E	B	N	H	J	I	F	D	Z	E	N
H	A	Y	U	I	R	B	S	F	G	X	H
V	D	B	N	H	F	U	D	F	T	T	U
T	Y	Z	X	L	K	T	M	J	U	I	O
Y	R	E	W	R	Y	E	U	C	B	N	K

B. Answer the following questions.

1. What is HTML? Name the types of HTML editors.

.....

2. What are HTML tags used for? How can they be categorized?

.....

3. What are attributes of an HTML tag? Write syntax to specify the attribute of any tag.

.....

4. How can we style HTML documents using CSS?

.....

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FORMATTING A WEB PAGE

A. Tick (✓) the correct option.

- Left, right, center, justify are values of which property?
 a. Color ☐ b. text-indent ☐ c. text-align ☐
- We can capitalize text using this property
 a. text-decoration ☐ b. text-transformation ☐ c. text-indent ☐
- The space that appears around an element is called
 a. Margin ☐ b. Indent ☐ c. Border ☐

B. Fill in the blanks using the given words.

- The space between our margin and text is called an (Margin/Indent)
- The specifies the element to which we want to apply formatting. (Selector/Declaration)
- We can set a first-line indent of all the paragraphs of our text using property in style sheet. (font-size/text-indent)
- properties are used to change the appearance of the text. (Background/Text)

C. Answer the following questions.

- What is the difference between text-decoration and text-transform properties?
- What are font properties used for? Name any two font properties
- Name and define any 2 text properties.
- What different things can we change using background properties?

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Chapter-6

CLASS 6

FORMATTING A WEB PAGE

A. Tick (✓) the correct option.

1. Which language describes the structure of a web page?

a. Hypertext

☐

b. Markup

☐

c. Programming

☐

d. None of these

☐

2. Which tag contains the content of a web page?

a. <HTML>

☐

b. <HEAD>

☐

c. <TITLE>

☐

d. <BODY>

☐

3. WIDTH is an attribute of the tag.

a. <P>

☐

b.

☐

c. <HR>

☐

d.

☐

4. Which tags are used to add headings in a web page?

a. Heading

☐

b. Style

☐

c. Superscript

☐

d. Subscript

☐

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

Hints: , <P>, markup, <SUP>, <SUB>

1. HTML is a language.

2. The tag is used to make the text bold.

3. The tag is used to define a section of text as a paragraph.

4. The tag is used to write the chemical formula of water.

5. The tag is used to write the formula of $(a+b)^2$.

Grade:



Teacher's Signature: _____

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INTERNET SERVICES

A. Tick (✓) the correct option.

1. Skype is an example of
 - a. Search Engine ☐
 - b. Video Conferencing Application ☐
 - c. File Sharing Application ☐
2. The activity of buying and selling products and services over the Internet is called.
 - a. Internet Banking ☐
 - b. Blogging ☐
 - c. E-commerce ☐
3. Flipkart is an example of
 - a. E-commerce platform ☐
 - b. Instant Messaging ☐
 - c. Internet Banking ☐

B. Write True or False.

1. A Podcast is a personal online diary or journal that allows us to share our thoughts or ideas.
2. Google is the most popular search engine.
3. We can store files on Google Drive and send links to other users to share the content.

C. Match the following.

- | | |
|----------------------|--|
| 1. Podcast | a. allows us to connect with people with similar interests. |
| 2. File Sharing | b. allows us to create a group with whom we can chat privately. |
| 3. Instant Messaging | c. provides tools for sharing with other users easily over the Internet. |
| 4. Blog | d. an online on-demand radio show. |

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INTERNET SERVICES

A. Find the given words in the crossword below.

Skype, Blog, Google Meet, Amazon, E-commerce

Y	U	I	G	X	Z	V	M	O	P
G	E	W	D	G	S	K	Y	P	E
O	H	P	O	B	X	V	M	Z	C
O	L	O	B	L	O	G	Y	W	O
G	Q	I	R	V	H	K	N	V	M
L	F	P	H	Y	I	A	Q	W	M
E	Y	O	B	N	M	M	X	C	E
M	E	D	Z	W	U	A	O	L	R
E	G	D	N	M	L	Z	K	T	C
E	W	E	C	V	K	O	P	X	E
T	R	R	U	B	M	N	G	F	J
Y	W	Z	V	J	T	I	S	Q	W

B. Answer the following questions.

1. What is Video Conferencing? Give an example.

.....

2. How can we upload files on Google Drive?

.....

3. What is Internet Banking used for? List some of its benefits.

.....

4. What points should we keep in mind while using Internet Services?

.....

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ALGORITHM, FLOWCHART AND MIND MAPS

A. Tick (✓) the correct option.

- The strategy to generate ideas is called
 a. Algorithms ☐ b. Programming ☐ c. Brainstorming ☐
- Reads one line of instruction at a time and translates it into machine language.
 a. Assembler ☐ b. Compiler ☐ c. Interpreter ☐
- Languages that have visual tools to develop a program.
 a. Third-Generation ☐ b. Fourth-Generation ☐ c. Fifth-Generation ☐

B. Fill in the blanks using the given words.

- Programs written in high level language are called (Machine Code/Source Code)
- The reads an entire set of instructions written in HLL and then converts them into machine language. (Compiler/Interpreter)
- should have a finite number of instructions to complete the task. (Loop/Algorithm)
- in Flowcharts are used to show the direction in which the process steps are moving. (Connector/Flow Lines)

C. Answer in one word

- What is used to represent the start and end of the flowchart?
- Which statements are used to represent decision making steps in algorithms?
- Give an example of a High-Level Programming Language.
- What is a software which is used to convert instructions to machine language called?

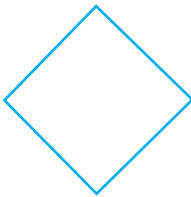

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ALGORITHM, FLOWCHART AND MIND MAPS

A. Complete the following table.

Symbol	Term	Function
	Connector	
	Decision	
		
		It represents reading input or writing output.
		It is used to represent the start and end of the flowchart. A flowchart always has a start and an end.
	Flow Lines	

B. Answer the following questions.

- What is Brainstorming? Elaborate on the process of a Brainstorming session.
.....
- What are Mind Maps? What are they used for?
.....
- What are Language Translators? Name and define any one type of Language Translator.
.....
- What are flowcharts. List some advantages of using flowcharts.
.....

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INTRODUCTION TO PYTHON

A. Tick (✓) the correct option.

- These can be used to hide the code in Python.
 a. Variables ☐ b. Operators ☐ c. Comments ☐
- Float is an example of
 a. Operator ☐ b. Data type ☐ c. Function ☐
- It allows us to write multiline codes that we save for further use.
 a. Script Mode ☐ b. Interactive Mode ☐ c. Print() function ☐
- allows us to type, edit, run and debug the Python programs.
 a. GUI ☐ b. IDLE ☐ c. Command Prompt ☐

B. Fill in the blanks using the given words.

- A is a layout from which objects are created. (Class/Function)
- Python is an based programming language. (Compiler/Interpreter)
- In the Python window, we write a code that executes one line at a time. (Editor/Shell)
- Python's also acts as a calculator. (Command Prompt/Editor)

C. Answer in one word.

- In Python, memory is taken back when it is no longer being used. Which feature is of Python makes this possible?
- Which file extension is used by Python?
- Which key is used to execute a program in Python?
- Python is written in which programming language?
- Which programming paradigm of Python makes it possible for programs to be structured into a simple, reusable piece of code called classes?

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INTRODUCTION TO PYTHON

A. Find the given words in the crossword below.

Operator, String, Variable, Script Mode, Python

T	R	E	W	S	X	C	V	G	H	I	O
N	S	M	B	C	Z	P	Y	T	H	O	N
F	C	G	Y	U	I	O	L	P	I	H	V
X	R	V	O	P	E	R	A	T	O	R	Z
G	I	U	R	E	S	Z	F	X	C	V	S
H	P	N	J	U	Y	T	R	D	G	U	T
J	T	K	G	T	E	S	X	F	G	H	R
U	M	I	T	E	W	Z	D	M	G	B	I
C	O	V	B	H	J	K	J	H	G	D	N
X	D	K	V	A	R	I	A	B	L	E	G
L	E	B	N	M	V	X	D	R	T	U	G

B. Answer the following questions.

1. Name some fields where Python is extensively used.

.....

2. What are the different programming modes in Python? What are they used for?

.....

3. What does Python IDLE stands for?

.....

4. Write a Python program to enter the name of your school.

.....

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INTELLIGENCE AND AI APPROACHES

A. Tick (✓) the correct option.

1. A person who is good at putting puzzles together has

- a. Visual-Spatial Intelligence
- b. Verbal-Linguistic Intelligence
- c. Logical-Mathematical Intelligence

☐
☐
☐

2. A person who has Bodily-Kinesthetic Intelligence has the quality.

- a. Good at thinking in patterns, rhythms and sounds
- b. Good at communicating ideas and thoughts
- c. Excellent hand-eye and physical coordination

☐
☐
☐

3. Which approach uses if-then-else statements?

- a. Rule based
- b. Learning Based
- c. Machine Learning

☐
☐
☐

B. Fill in the blanks using the given words.

1. A computer system that achieve AI through a machine learning technique is called a based approach. (Rule/Learning)

2. is a kind of machine learning which recognises rewards and punishments so that best solution to a problem can come out. (Reinforcement/Unsupervised)

3. refers to software technologies that make a robot or computer act and think like human. (Musical Intelligence/Artificial Intelligence)

C. Answer in one word.

1. Learning Based approach is also referred as?

.....

2. Reinforcement Learning is also known as?

.....

3. People who are good debaters have which type of intelligence?

.....

INTELLIGENCE AND AI APPROACHES

A. Define the following.

1. Define Intelligence.

.....

.....

2. Define the two kinds of AI approaches.

.....

.....

3. Define Visual-Spatial Intelligence.

.....

.....

B. Guess the type of intelligence from the given quality.

1. Loves reading and writing

.....

2. Good at resolving conflicts in group

.....

3. Look at things from different point of view

.....

4. Loves singing and playing different musical instruments

.....

5. Solve complex computations easily

.....