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FUNDAMENTALS OF COMPUTER

A. Tick (✓) the correct option.

- Which of the following is a microcomputer?

a. Desktop	☐	b. PDP 11	☐
c. PDA	☐	d. DEC 10	☐
- Which type of computer operates by measuring instead of counting?

a. Digital	☐	b. Hybrid	☐
c. Analog	☐	d. None of these	☐
- Which of the following is an example of embedded computer?

a. Microwave	☐	b. ATM	☐
c. Digital Camera	☐	d. All of these	☐
- Which of the following is a computing device specially designed to play video game?

a. Digital watch	☐	b. Digital thermometer	☐
c. Electricity meter	☐	d. Gaming consoles	☐

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

- Minicomputers are smaller than microcomputers.
- Hybrid computer provides the functionality of an analog computer.
- PDP11 is a supercomputer.
- A handheld computer can easily be stored in our pocket.
- Mainframe computers are very large, fast and powerful computers.

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FORMULAS AND FUNCTIONS IN EXCEL 2016

A. Match the following:

Functions	Purpose
1. SUM	a. It returns the square root of the given number.
2. INT	b. It returns the absolute value of a given number.
3. ABS	c. It rounds number to an integer value.
4. SQRT	d. It returns the sum of a range.

B. Write the output of the following:

1. =MIN (5,7,8)
2. =LEFT("Computer", 4)
3. =AVERAGE(12,3,6)
4. =TODAY()
5. =LEN("Touch")
6. =COUNT(4,8,12)

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

1. Every function begins with a + sign.
2. Combined reference is a type of cell reference.
3. The NOW() function is used to display the current date.
4. Excel does not provide functions for working on textual content.
5. The MAX() function returns the largest value from a set of values.

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CHARTS IN EXCEL 2016

A. Tick (✓) the correct option.

- Which chart is used to display the quantitative magnitude of the data graphically?
 - Area ☐
 - Line ☐
 - Scatter ☐
- can be either horizontal or vertical lines.
 - Legend ☐
 - Guidelines ☐
 - Labels ☐
- Which of the following is used to display the data in the form of long rectangular rods?
 - Bar chart ☐
 - Line chart ☐
 - Scatter chart ☐

B. Define the following:

- Data series
- Legend
- Gridlines
- Chart

C. Match the following:.

- | | |
|--------------------------|---|
| 1. Area chart | a. Show the meaning of symbols and colours in chart |
| 2. Pie chart | b. Quantitative magnitude of data |
| 3. XY Scatter Plot chart | c. Sector showing relative size of each value |
| 4. Legend | d. Correlation between two sets of values |

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LEARN HTML5 AND CSS3

A. Complete the sentences.

- Tags are the basic building blocks of a
- HTML stands for
- The server stores the files and information in the form of
- Tag begins with opening angular bracket (<) and ends with
- All attributes consist of two parts – a name and a

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

- The 'name' is the value that you want to set.
.....
- We cannot change the width of the horizontal line on the web page.
.....
- Values given to the attributes should not be enclosed within the double quotes.
.....
- There must be a space between < and > in a tag.
.....

C. Match the following:

- | | |
|--------------------------------------|----------------|
| 1. Used to view the Web page | a. Web page |
| 2. Collection of web pages | b. Web browser |
| 3. HTML document is called | c. <HEAD> Tag |
| 4. Contains information about header | d. Website |

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FORMATTING A WEB PAGE

A. Complete the sentences.

1. A tag used to align the text to center is
2. A tag which defines start and end of a paragraph in the text is
3. HTML stands for
4. I am a tag used to give italic effect to your text

B. Write a short note on the following tags:

1. <HR>:
2. <PRE>:
3.
:
4. <SUP>:

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

1. Face is an attribute of tag.
.....
2. HTML is a low-level language.
.....
3. The <Sup> tag is used to write the equation $x^2+y^2=7$.
.....

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INTERNET SERVICES**A. Write a short note on the following:**

1. Blogging -
.....
2. Newsgroup -
.....
3. Cloud Storage -
.....

B. Write two examples of the Cloud Storage Service.

1.
2.

C. Answer the following questions.

1. Mention any two fields where video conferencing applications are used.
.....
2. What is the full form of e-mail?
.....

D. Match the following:

- | | |
|----------------------|--------------------|
| 1. Cloud Storage | a. Yahoo messenger |
| 2. Modes of payment | b. OneDrive |
| 3. Instant messaging | c. Net Banking |

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ALGORITHM, FLOWCHART AND MIND MAPS

A. Read the clues and answers the following:

1. It translates and executes one statement at a time.
2. It is a program used to translate assembly language into machine language.
3. It is a set of instructions given to the CPU in a pre-defined sequence to complete a task.
4. It is the process of writing a program.

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

1. People who write programs are called manufacturers.
.....
2. A computer understands only human language.
.....
3. HLL stands for High Language Level.
.....
4. A second generation language uses English like statements.
.....

C. Write the names of three third generation languages.

1.
2.
3.

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INTRODUCTION TO PYTHON

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

Hints: open-source, dynamic, false, Command Prompt , assignment

1. Python is a language and it also identifies the variable type automatically.
2. The operators are used to assign the value of the right expression to the left operand.
3. Python is an language and can be easily downloaded from the Internet for free.
4. allows the user to enter commands directly into Python and get an output instantly by pressing the Enter key.
5. Logical OR operator returns if both operands are false.

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

1. The print() function allows to display output on the screen while a program executes.
2. Assignment operators are used to perform arithmetic operations between two operands.
3. A variable can hold different types of values.
4. Comments are the most helpful part of any program.

C. What will be the output of the following program?

1.

```
p, q, r = 10, 20, 30
print(p, q, r)
```

.....

2.

```
a = 4.5; b = 2
print (a//b)
```

.....

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INTELLIGENCE AND AI APPROACHES

A. Answer the following questions.

1. Name and define the two AI approaches.

.....

2. What is Machine Learning?

.....

3. What are the qualities that a person with Interpersonal Intelligence will possess?

.....

4. What is the difference between intelligence and artificial intelligence?

.....

.....

B. Define the any two qualities people possess in:

1. Musical Intelligence

.....

.....

2. Existential Intelligence

.....

.....

3. Naturalistic Intelligence

.....

.....