



Delhi Public School, Howrah

FINAL EXAMINATION (2024-25)
CLASS-VIII

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

**SUBJECT: COMPUTER EDUCATION
THEORY EXAMINATION**

Time:-1 Hours 30 mins

F.M.50

General Instructions:

- The question paper contains 8 questions with sub-parts.
- All questions are compulsory.
- Read the questions carefully.

1. Choose the correct answer.

(0.5X6=3)

- _____ apps are developed for a particular platform or device.
i. Web ii. Native iii. Google iv. Hybrid
- The _____ statement can be used to unconditionally jump out of the loop.
i. do-while ii. Continue iii. break iv. for
- Which of the following symbol is used for slicing?
i. Colon ii. Semicolon iii. Comma iv. Question mark
- _____ is the professional who make value out of data.
i. Data Scientist ii. Data Analyst iii. Data Developer iv. Machine Learning Engineer
- String, list or tuple are termed as ---.
i. Sequence ii. Function iii. Loop iv. Range
- iOS is developed and supported by _____ and can be used only on its own devices.
i. Apple ii. Google iii. Android iv. Yahoo

2. Fill in the blanks:

(0.5X6=3)

- _____ feature in search engines is used to predict what you are trying to type after few keystrokes.
- _____ refers to the process of accessing items from a list by using indices in the reverse order.
- The _____ loop in Python is used to repeat a block of statements for a given number of times.
- _____ widget in Tkinter is used to create action button for application.
- _____ charts are used to visualize trends over a period of time.
- Using _____ banks can detect fraud as early as possible for minimizing the losses.

3. State whether the statements are True or False and rewrite the false statement(s) correctly:

(1X6=6)

- Pack method organizes the widget window in tabular form.
- A graph is a pictorial representation or a diagram that represents data or values in an organized manner.
- Remove method reverse the order of the list.
- The main objective of data visualization is to communicate information clearly and efficiently to users.
- The range() is used to arrange the elements of a list in ascending order in Python.
- Del keyword helps to delete the whole list in Python.

4. Give one word answer of the following:

(0.5X6=3)

- a. This is a standard library in Python used to create GUI application.
- b. This tool in Thinkable is used for instructing the components what to do and when to do it.
- c. This person is widely considered as the Father of Artificial Intelligence for his pioneer role within the field.
- d. This technique returns the specified range of values as a new list.
- e. This product consists of several programs designed to make users more productive and/or assist them with personal tasks.
- f. This is a small part of GUI which provides better control for user.

5. Match the following:

(0.5X6=3)

Column A	Column B
a. Indexing.	i. Remove()
b. Concatenation Operator.	ii. Excel Table
c. Structured Data	iii. Trained machines to make real time predictions
d. Deep Blue.	iv. +
e. Machine Learning	v. Refers to the memory location of an item
f. This is used to remove the first occurrence of the specified item from the list	vi. IBM
	vii. Pop()
	viii. *

6. Find out the differences between the following:

(2X3=6)

- a. Append Function and Extend Function
- b. Structured Data and Unstructured Data
- c. Sort() and Count()

7. Write a python script to get the following output.

(1X3=3)

The image shows a registration form with three input fields: 'Zipcode', 'Country', and 'Membership Level'. Below these fields is a red 'Register' button. The form is enclosed in a rectangular border.

8. Answer the following questions :

- a. Subrata wants to display relationships and distributions between the two variables, but he doesn't know about the appropriate chart type used for the same. Can you help him? **(3)**
- b. Give the output of the following code fragment, when- **(3)**
List1=["srt",34,89,"5jk",78,90,5.0,5.9]
print (List1*3)
print (List1[4])
print (len(List1))

c. Imagine that you are a Project Manager in an IT company and want to create an advertisement for a job profile of Data Mining Engineer. Write the main points that you should mention in the advertisement for hiring the engineer. **(3)**

d. i. Priyanshu was writing some Python scripts required for his school midterm project. The program needs a number as input and print the following pattern using loop. **(2+2)**

-----Pattern-----

```
    $$$$  
    $$$$  
    $$$$  
    $$$$
```

ii. Help him to print all the natural numbers from 0 to 10 using loop.

e. Moupiya is writing a program using lists in Python. After writing the program, when she executes it, she feels that she has entered some irrelevant values in the list. Now she wants to delete those values. Suggest a suitable functions to her to do so with some examples. **(4)**

f. What is the output of the Python code snippet below? **(6)**

```
x= [12, 13, "ABC", 12, 14, "India", "XYZ", 123, 98, 101]  
print(x[3: ])  
print(x[-7: ])  
print(x[:2])  
print(x[-4:-1])  
print(x[:-1])  
print(x[0:4])
```

