

PMM
12 - Std

SECOND REVISION TEST - 2024

COMPUTER SCIENCE

Time : 3.00 Hrs

Marks : 70

Part- A

Answer the all the questions :

15 X 1 = 15

1. The values which are passed to a function definition are called
(a) Argument (b) Function (c) Subroutine (d) Definition
2. A variable which is declared outside of all the functions in a program is known as
(a) Local (b) Global (c) Enclosed (d) None of these
3. The ϕ notation in asymptotic evaluation represents
(a) Base case (b) Average case (c) Worst case (d) Null case
4. IDLE Expand variable
(a) Interactive Development Learning Environment
(b) Integrated Developing Learn Environment
(c) Interactive Developing Learning Environmental
(d) Integrated Development Learning Environment
5. Which statement is generally used as a placeholder??
(a) continue (b) break (c) goto (d) pass
6. Which of the following keyword is used to exit a function block?
(a) define (b) def (c) finally (d) return
7. Which is returns True if the string contains only letters. Otherwise return False.
(a) isalnum() (b) isalpha() (c) isdigit() (d) isall()
8. Pick odd one in connection with collection data type
(a) List (b) Loop (c) Dictionary (d) Tuple
9. The process of creating an object is called as:
(a) Constructor (b) Destructor (c) Initialize (d) Instantiation
10. Model consists of entities, attributes and relationships
(a) Relational (b) Network (c) ER (d) Hierarchical
11. The _____ provides authorization commands to access data.
(a) DQL (b) DDL (c) DCL (d) TCL
12. The command used to skip a row in a CSV file is
(a) next() (b) skip() (c) omit() (d) bounce()
13. The module which allows you to interface with the Windows operating system is
(a) OS module (b) sys module (c) csv module (d) getopt module
14. Which of the following is called the master table?
(a) sqlite_master (b) sql_master (c) main_master (d) master_main
15. Which of the following feature is used to represent data and information graphically?
(a) Data List (b) Data Tuple (c) class and objects (d) Data Visualization

PART - B

Write any 6 questions (Compulsory Question No: 24).

6 X 2 = 12

16. Define Function with respect to Programming language .
17. Why scope should be used for variable. State the reason.
18. How will you delete a string in Python?
19. How will you access the class members.
20. What is the difference between reader() and DictReader() function?
21. What is normalization?.
22. Differentiate compiler and interpreter.

23. What is the advantage of declaring a column as "INTEGER PRIMARY KEY".
 24. What is the use of lambda or anonymous function?

Part- C**6 X 3 = 18****Write any 6 questions (Compulsory Question No: 33)**

25. What are the different ways to access the elements of a list. Give example.
 26. Explain Ternary operator with examples.
 27. Define: break, continue, pass
 28. What are the difference between list and Dictionary?
 29. Write short note on public and private data members in python.
 30. Write a SQL statement using DISTINCT keyword?
 31. Explain the purpose of the following functions:
 i) plt.title ii) plt.legend() iii) plt.show()

32. Find the Output:

```
str1=input("Enter a string: ")
```

```
str2="aAeEiIoOuU" v,c=0,0
```

```
for i in str1:
```

```
if i in str2:
```

```
v+=1
```

```
elif i.isalpha():
```

```
c+=1
```

```
print("The given string contains { } vowels and { } consonants".format(v,c))
```

33. Write a program to check if a number is Positive, Negative or zero.

Part- D**5 X 5 = 25****Answer the all the questions:**

34. (a) Explain with an example interface and implementation. (OR)
 (b) Explain the characteristics of an algorithm.
 35. (a) Explain input() and print() functions with examples. (OR)
 (b) Explain the different types of function with an example.
 36. (a) Explain the following built-in-function.
 i) id() ii) chr() iii) round() iv) type() -v) pow() (OR)
 (b) Write the output for the following program.

i) class Sample:

```
num=0
```

```
def __init__(self, var):
```

```
Sample.num+=1
```

```
self.var=var
```

```
print("The object value is = ", self.var)
```

```
print("The count of object created = ", Sample.num)
```

```
S1=Sample(25)
```

```
S2=Sample(35)
```

```
S3=Sample(10)
```

ii) str1 = "Welcome to learn Python"

```
print (str1[10:16])
```

```
print (str1[10:16:4])
```

```
print (str1[::3])
```

37. (a) What are the components of SQL? Write the commands in each. (OR)
 (b) What is the purpose of sys,os,getopt module in Python. Explain.
 38. (a) Write in brief about SQLite and the steps used to use it. (OR)
 (b) What are the Key Differences Between Histogram and Bar Graph.