

Public Model Exam Question Paper - 1
12th COMPUTER SCIENCE

TIME : 3.00 hrs**MARKS : 70****I. Choose the correct answer:****15x1=15**

- The functions which will give exact result when same arguments are passed are called
(A) Impure functions (B) Partial Functions
(C) Dynamic Functions (D) Pure functions
- The data type whose representation is known are called
(A) Built in datatype (B) Derived datatype
(C) Concrete datatype (D) Abstract datatype
- The process of binding a variable name with an object is called
(A) Scope (B) Mapping (C) late binding (D) early binding
- In dynamic programming, the technique of storing the previously calculated values is called ?
(A) Saving value property (B) Storing value property
(C) Memoization (D) Mapping
- Which of the following character is used to give comments in Python Program ?
A) # B) & C) @ D) \$
- Which statement is generally used as a placeholder?
A) continue B) break C) pass D) goto
- Which of the following keyword is used to define the function testpython(): ?
(a) define (b) pass (c) def (d) while
- Which of the following is the slicing operator?
(a) {} (b) [] (c) < > (d) ()
- What will be the result of the following Python code?
S=[x**2 for x in range(5)]
print(S)
(a) [0,1,2,4,5] (b) [0,1,4,9,16] (c) [0,1,4,9,16,25] (d) [1,4,9,16,25]
- Which of the following class declaration is correct?
(a) class class_name (b) class class_name<>
(c) class class_name: (d) class class_name[]
- Which of the following is an RDBMS?
a) Dbase b) Foxpro c) Microsoft Access d) SQLite
- Making some changes in the data of the existing file or adding more data is called
(A)Editing (B) Appending (C)Modification (D) Alteration
- Which of the following can be used for processing text, numbers, images, and scientific data?
(A) HTML (B) C (C) C++ (D) PYTHON
- Which of the following is a control structure used to traverse and fetch the records of the database?
(A) Pointer (B) Key (C) Cursor (D) Insertion point
- To install matplotlib, the following function will be typed in your command prompt.
What does “-U” represents? Python -m pip install -U pip
a. downloading pip to the latest version b. upgrading pip to the latest version
c. removing pip d. upgrading matplotlib to the latest version

II. Answer the any6 in the following questions: Q.No:20 is compulsory 6x2=12

- What is a subroutine?
- Why scope should be used for variable. State the reason.
- Write short notes on Tokens.
- What is meant by scope of variable? Mention its types.
- Find the output:
>>>squares=[x**2 for x in range(1,11)]
>>>print(squares)

21. List some examples of RDBMS.
22. What is use of next() function?
23. What is the advantage of declaring a column as "INTEGER PRIMARY KEY"
24. Evaluate : a) abs(-25 + 12.0) b) format(0b110,'d')

III. Answer the any6 in the following questions: Q.No: 33 is compulsory 6x3=18

25. Identify which of the following are constructors and selectors?
(a) N1=number() (b) accetnum(n1) (c) displaynum(n1)
(d) eval(a/b) (e) x,y= makeslope (m), makeslope(n) (f) display()
26. Write a note on Asymptotic notation.
27. Write note on if..else structure.
28. Write a Python program to display the given pattern

```
C O M P U T E R
C O M P U T E
C O M P U T
C O M P U
C O M P
C O M
C O
C
```

29. How will you create constructor in Python?
30. Write a SQL statement to modify the student table structure by adding a new field.
31. Differentiate PYTHON and C++
32. Write any three uses of data visualization.
33. Find the output:

```
class student:
    mark1,mark2,mark3=45,91,71
def process(self):
    sum=student.mark1+student.mark3+student.mark3
    avg=sum/3
    print("Total Marks=",sum)
    print("Average Marks =",avg)
    return
s=student( )
s.process( )
```

IV. Answer the following: 5x5=25

34. What is a List? Why List can be called as Pairs. Explain with suitable example **(OR)**
Write any five benefits in using modular programming.
35. What is Binary search? Discuss with example. **(OR)**
Write the output for the following program:
x=int (input("Type a Value for X : "))
print ("X = ",x)
print ("The x is =",x)
x+=20
print ("The x += 20 is =",x)
x-=5
print ("The x -= 5 is =",x)
x*=5
print ("The x *= 5 is =",x)
x/=2
print ("The x /= 2 is =",x)
36. Write a detail note on for loop **(OR)** Explain the scope of variables with an example.
37. What the different ways to insert an element in a list. Explain with suitable example. **(OR)** Differentiate DBMS and RDBMS.
38. Write any 5 features of Python. **(OR)**

Differentiate Excel file and CSV file.

Prepared by

M.Poovendiran.,M.Sc.,M.phil.,B.Ed.,PGDCA

Paramveer Matric Hr.Sec School

Pauparapatti,Dharmapuri- 636809.

Ph.No: 9524451124

www.Padasalai.Net