STUDENT'S - 100

FULL PORTION MODEL QUESTION PAPER - 1

12 - COMPUTER SCIENCE

Time: 3 Hrs.

Marks: 70

				PARI:								
Note	: (I) All the	quest	ions are comp	oulsory			15 x 1 = 15				
	(11	555555555555	ives a	ost appropria nd write the o g answer.	555555		5555	iven four				
1.		are the b	asic bu	ilding blocks of	comp	uter progra	ms.					
	(A)	Subroutines	(B)	Variables	(C)	Classes	(D)	Arrays				
2.		process of prov	iding c	only the essenti	als and	hiding the	deta	ils is known				
	(A)	Hiding	(B)	Abstraction	(C)	Providing	(D)	Calling				
3.	Which of the following is the command prompt symbol of Python?											
	(A)	>>	(B)	<<	(C)	>>>	(D)	<<<				
4.	양양양양	ch of the follow screen?	ing py	thon built-in fu	nction	is used to d	lispla	y result on				
	(A)	display()	(B)	show()	(C)	output()	(D)	print()				
5.	Which statement is generally a place holder?											
	(A)	continue	(B)	break	(C)	pass	(D)	goto				
6.	 mult	statement tiple times	allows	s to execute a s	tateme	nt or group	of st	tatements				
	(A)	Branching	(B)	Conditional	(C)	Jumping	(D)	Loop				

7.	What is the positive index value of 66 in the list given below?									
		MyList=[50, 58	66]							
	(A)	4	(B)	-4	(C)	3	(D)	-1		
8.	The function used to create a tuple from a list									
	(A)	tuple:list()	(B)	list.tuple()	(C)	tuple()	(D)	list()		
9.	The elements in a tuple:									
	(A)	Can be change			(B)	Cannot b	e chai	ige		
	(C)	Can be delete	d		(D)	Cannot b	e dele	ted		
10.	The human readable text file where each line has a number of fields, separated by commas:									
	(A)	txt files	(B)	py files	(C)	csv files	(D)	doc file		
11.	File extension of Excel:									
	(A)	exi	(B)	xls	_(C)	cel	(D)	Ecl		
12.	Python is a:									
	(A)	Programming language				Scripting language				
	(C)	Glue language	(D)	B or C						
13.	What doesnamecontains?									
	(A)	() C++ filename				main() name				
	(C)	C) Python filename				OS module name				
4.	Which is a python package used for 2D graphics?									
	(A)) matplotlib.pyplot				matplotlib.pip				
	(C)	matplotlib.nu		(D)	matplotlib.plt					
5.;	lder	Identify the package manager for Python packages or modules.								
	(A)) Matplotlib				ΡίΡ				
	(C)	plt.show()	(D)	python package						

PART: II

Answer any SIX questions. (Question No. 16 is Compulsory) $6 \times 2 = 12$

- 16. Write the inference you get from X:=(78)
- 17. What is the use of constructor and selector?
- 18. Write a short note about token and list the token types of python.
- 19. What are the types of looping constructs used in Python?
- 20. Define function and list out the types of functions.
- 21. What is List in Python? Write with an example.
- 22. List out any four characteristics of DBMS.
- 23. Mention the two ways to read a CSV file using Python.
- 24. Write the expansion of (i) SWIG (ii) MinGW

PART : III

Answer any SIX questions. (Question No. 25 is Compulsory) $6 \times 3 = 18$

25. Answer to the following questions with the help of the function given below:

```
let rec pow (a: int) (b: int) : int :=
if b=0 then 1
else a * pow a (b-1)
```

- (a) What is the name assigned to this function?
- (b) What are the parameters defined to this function?
- (c) What type of function is this?
- 26. List the characteristics of algorithm.
- 27. Explain ternary operator with an example.
- 28. List the difference between break and continue statement.

29. What will be the output of the following python code?

```
x=20
while(x >= 5):
print (x, end='\t')
x-=5
```

- 30. Write a short note about Slicing operator.
- 31. What are the advantages of Tuples over a list?
- 32. What is instantiation?
- 33. What will be the output of the following python code?

```
import matplotlib.pyplot as plt
plt.plot([1,2,3,4], [1,4,9,16])
plt.show()
```

PART: IV

Answer all the questions.

 $5 \times 5 = 25$

34. Explain the types of parameters with suitable example annotations.

(OR)

Explain about the input() and print() functions in python with suitable example.

35. Explain about the Nested if ... elif ... else statement of python with suitable example.

(OR)

Explain about for() loop with suitable example.

36. Explain the different set operations supported by python with suitable example.

(OR)

Compare remove(), pop() and clear() function in Python.

37. Tabulate the different mode with its meaning.

(OR)

Write the syntax for getopt() and explain its arguments and return values.

38. Write in brief about SQLite and the steps used to use it.

(OR)

What will be the output of the following python code?

import matplotlib pyplot as plt

x = [1,2,3]

y = [5,7,4]

x2 = [1,2,3]

y2 = [10,14,12]

plt.plot(x, y, label='Line 1')

plt.plot(x2, y2, label='Line 2')

plt.xlabel('X-Axis')

plt.ylabel('Y-Axis')

plt.title('LINE GRAPH')

plt.legend()

plt.show()

ALL THE BEST