HALF YEARLY EXAMINATION - 2024

	STD: 12	COMPUTER SCIENCE			
	TIME: 3.00 HRS		TOTAL MARKS:70		
	Note:(1) Answer all the question and write the option code and the	ns (ii)choose the most appropriate ans	swer from the given four alternatives		
		PART - I	15 * 1 = 15		
	 The values which are passe 	ed to a function definition are called	13 1-13		
	(A) Arguments (B) Subrout	tines (C) Function (D) Definition			
	2. Which members are access	Which members are accessible from outside the class?			
(A) Public members (B)Protected members (C) Secured members (D) Private members (What is the output of the C. II.			ers (D) Private members		
what is the output of the following					
	str="Computer"	그 이번 가는 그렇게 하는 건강화였다.			
	print(str[::2])	그 그렇다. 요요요하는 요리 생활하다			
	(A) Comue (B) Cmue (C) 4. Binary search is also called	mue D) Coptr			
	(A) Linear search (B) Search	1 as			
	5. Who developed Python?	nential search (C) Random search (D) I	Half-interval search		
	A) Ritche B) Guido Va	in Rossum C) Bill Gates D) Sunde			
	Plays a vital fole in P	VIDOU programming?			
	A) Statements B) Cont	trol () Structure D) I 1			
	talletion is called an	ionymous un-named function			
	(A) Lamoua (B) Reci	ursion (C) E	(D) define		
	a sum of a sum of the	ay be:			
	(A) Positive (B) Negative 9. What will be the result of the	(C) Both (a) and (b)	(D) Either (a) or (b)		
	9. What will be the result of the following Python code? $S=[x**2 \text{ for } x \text{ in range}(5)]$ (D) Either (a) or (b)				
	print(S)				
	(A) [0,1,2,4,5] (B) [0,1,4	4,9,16] (C) [0,1,4,9,16,25] (D)	[] 40.16.26		
	12 table is known as	(b)	[1,4,9,16,25]		
	(A) tuple (B) attrib	oute (C) relation (D) entity	y .		
	11. Queries can be generated us	sing			
	(A) SELECT (B) ORD	DER BY (C) MODIFY (D)	ALTER		
	(A) Text mode (B) Binar	de is used when dealing with non-text	files like image or exe files?		
	(A) OS module (B) s	you to interface with the Windows ope sys module (C) csv module	rating system is		
14. Which of the following executes the SQL command to perf		sys module (C) csv module	(D) getopt module		
	(A) CACCUIC()	((') curcor()	그리 얼마나 하는데 살아내는 아니는 아이들이 얼마나 아니는 얼마나 아니는데 얼마나 나를 다 먹었다.		
]	(A) Data List (B) Data Tuple: (C) Cursor() (D) run() (A) Data List (B) Data Tuple: (C) Cl		mation graphicall 9		
	(A) Data List (B) Data	Tuple (C) Classes and Objects	(D) Data Vignation		
		PARTII	(D) Data Visualization		
A	Answer any 6 questions. Questi	ion no 24 is compulsory	6X2 = 12		
1	What do you mean by Name	espaces?	24 - 14 15 15 - 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

17. What are the different modes that can be used to test Python Program?

18. Write note on range () in loop

19. What will be the output of the following python code? str1 = "School" print(str1*3)

- 20. Differentiate constructors and selectors.
- 21. What is CSV File?
- 22. What is the advantage of declaring a column as "INTEGER PRIMARY KEY"
- 23. List the general types of data visualization.
- 24. Name some of the commonly used interfaces to import C++ files in Python.

PART- III

Answer any 6 questions. Question no 33 is compulsory.

6X3 = 18

- 25. Why access control is required?
- 26. Explain Ternary operator with examples.
- 27. Write a program to display

A

A B

ABC

ABCD

ABCDE

- 28. What the different ways to insert an element in a list?
- 29. Differentiate PYTHON and C++
- 30. Write any three DDL commands
- 31. Mention the difference between fetchone() and fetchmany()
- 32. Write any three uses of data visualization.
- 33. Write a program to check if the year is leap year or not.

PART - IV

Answer all the questions.

5x5 = 25

- 34. Explain the purpose of the following functions:
 - a. plt.xlabel

b. plt.ylabel

c. plt.title

d. plt.legend()

e. plt.show()

Write the output for the following Python commands strl = "Welcome to Python"

1. print(str1)

(OR)

- 2. print(str1[11:17])
- 3. print(str1[11:17:2])
- 4. print(str1[::4])
- 5. print(str1[::-4])
- 35. Explain LEGB rule with example. (OR)
 Explain Bubble Sort Algorithm with example.
- 36. Explain input() and output() functions with example. (OR)
 Explain the different set operations supported by Python with suitable example.
- 37. How to define constructor and destructor in Python? Explain with example. (OR) Explain the types of constraints in SQL with suitable example.
- 38. Differentiate Excel file and CSV file.

(OR)

Write the Python script to display all the records of the following table using fetchmany()

Icode	Item Name	Rate	
1003	Scanner	10500	
1004	Speaker	3000	
1005	Printer	8000	
1008	Monitor	15000	
1010	Mouse	700	
	-		

HSK-12