

# HALF YEARLY EXAMINATION - 2023

		XI	I - STANDARD		
Ţ	ime : 3.00 hrs.	COM	PUTER SCIENCE	Marks: 7	Ó
		y Angel Marine Season of	Part - I	en de la companya de	
I.	Answer all th	ne question:		15 × 1 = 1	5
1	. Which of the	following are mand	datory to write the ty	pe annotations in the functio	n
	definition?	A 24 SH 3.		include some	
	a) { }	b) ( )	c) [ ]	d) < >	
2.	The data struc	cture which is a mi	utable ordered seque	ence of elements is called	
	a) Built in	b) List	c) Tuple	d) Derived data	
3.	Which member	ers are accessible	from outside the clas	is?	
	a) Public men	nbers	b) Protected	members	1
c) Secured membe		embers	d) Private members		
4.	Two main measures for the efficiency of an algorithm are				
	a) Process an	d memory	b) Complexit	y and capacity	
- V	c) Time and s	pace	d) Data and	Space	
5.	Which of the fo	ollowing is not a ke	eyword in python?		
	a) Break	b) While	c) Continue	d) Operators	
6.	Which amongs	st thin is not a jump	p statement?		· ·
	a) For	b) Pass	c) Continue	d) Break	1
7.	Pick the correct	ct one to execute t	he given statement s	uccessfully.	
	if:				
	print (x, "is a le		Sacota Andrew		
			c) x/4 = 0	d) x % 4 = = 0	The state of
8.	The subscript of a string may be:				
	a) Positive	b) Negative	c) Both (a) and (b)	d) Either (a) or (b)	
9.	Which of the	following python	function can be us	ed to add more than one	
	element. Within	an existing list?			,
	a) append ( )	i di	) append_more()	t merces are taward	
	c) extend ()			· Lips on it is a linear the	
0.	Which of the fo		used as destructor?		*
	a) init (	) b	) dest ( )	in parti	*

XII Computer Science d) ALTER TABLE d) Bounce () d) Boost d) MAXIMUM ()  $6 \times 2 = 12$ 

11. What is the acronym of DBMS?

- a) Data Base Management Symbol
- b) Data Base Managing System
- c) Data Base Management System
- d) Data Basic Management System

12. The command to delete a table including the structure is

- a) DROP
- b) DELETE
- c) DELETES ALL

13. The command used to skip a row in a CSV file is

- a) Next()
- b) Skip ()
- c) Omit ()

14. A frame work for interfacing python and C++ is

- a) Ctypes
- b) Swig
- c) Cython

15. The function that return the largest value of the selected column is

Steps stellab

- a) MAX ():
- b) LARGE ()
- c) HIGH()

II. Answer any six from the following questions. Q.No. 24 is Compulsory

- 16. What is subroutine?
- 17. What do you mean by Namespaces?
- 18. Write short notes on Tokens?
- 19. Define global scope?
- 20. What is instantiation?
- 21. Define control structure?
- 22. Differentiate unique and primary key constraint
- 23. What is the use of 'cd' command give an example.
- 24. What will be the value of x in the following python code?

$$\ell = [2, 4, 6 [1, 3, 5]]$$

 $x = len(\ell)$ 

Part - III

III. Answer any six from the following question. Q.No. 33 is Compulsory.

- 25. Differentiate pure and impure function?
- 26. Differentiate concrete data type and abstract data type?
- 27. List the characteristic of an algorithm?
- 28. Write a short about the followings with suitable example.
  - a) Capitalize ()
- b) Swap case ()

3

## XII Computer Science

- 29 What are the advantages of tuples over list?
- 30. What is the difference between select and project command?
- 31. Write a note on open () function of python. What is the difference between the two methods?
- 32. Write any three uses of data visualization?
- 33. Using if . . . elif . . . else . . . statement write a suitable program to display largest of three members?

#### Part - IV

## IV. Answer all the question

 $5 \times 5 = 25$ 

- Explain with an example interface and implementation. (or)
  - Explain the types of scopes for variable (or) LEGB rule with example? b)
- Explain the bubble sort algorithm with example? (or) 35. a)
  - Explain input () and print () functions with examples? b)
- (or) Write a detail note on for loop. 36. a)
  - What the different ways to insert an element in a list. Explain with suitable b) example.
- Explain the scope of variables with an examples? (or) 37. a)
  - b) Explain the different types of relationship maping?
- (or) 38. a) Differentiate excel file and CSV file?
  - Explain the purpose of following functions? b)
    - b) plt. ylabel () c) plt. tittle () a) plt. xlabel ()
    - d) plt. legend () e) plt. show ()

