## COMMON HALF YEARLY EXAMINATION- 2024 \* Standard - XII

Time	: 3.00 hrs	COMPUTER S	SCIENCE	Marks: 70
		Part - I		15×1=15
Note:	i) Answer all the	questions.	40	26 11 1
	II) Choose the most appropriate answer from the given four alternatives			
1.00	and write the	corresponding ansy	ver:	
1)	Which of the follow code structure?	wing is a unit of cod	e that is often define	ed within a greater
	a) Subroutines	b) Function	c) Files	d) Modules
	The data structure	which is a mutable of	ordered sequence of	elements is called
	a) Built in b) List c) Tuple d) Derived data			
3)	Which members a	are accessible from	outside the class?	-,
	a) Public member		Protected members	IKE:
	c) Secured memb	pers d) (	Private members	44 4 16/
4)	The Python promp	ot indicates that Inte	erpreter is ready to a	accept instruction
	a) >>>	b) <<<	c) #	d) <<
5)	Which statement	is generally used as	a placeholder?	· Commercial and a second
	a) continue	b) break	c) pass	d) goto
6)	Which of the follo	wing keyword is use	d to exit a function	block?
	a) define	b) return	c) finally	d) def
7)		oulput of the following	ng code?	(far
	strl="Chennai School	ools"	State to the	
	strl[7]="-"	12 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10		
			l c) Typę error	d) Chennai
8)	If List =[17,23,41,10] then List.append(32) will result			
1	a) [32,17,23,41,10] b) [17,23,41,10,32] c) [10,17,23,32,41] d) [41,32,23,17,10]			
9)	Which of the follow	ving method is autom	alically executed who	en an object is
	created?			
	a) _object_()	b) _del_()	c) _func_()	d) _init_()
10)	Who developed E	R model?	8 0 1	
	a) Chen	b) EF Codd	c) Chend	d) Chand
11)	The command to	delete a table is _		- N. 1000000 1
	a) DROP	b) DELETE	c) DELETE ALL	d) ALTER
	A CSV file is also known as a			
			c) String file	d) Random file
13)	A framework for in	nterfacing Python ar	nd C++ is	
	a) Ctypes	b) SWIG	c) Cython	d) Boost
14)	a) Ctypes b) SWIG c) Cython d) Boost Which of the following is a control structure used to traverse and fetch the			
	records of the database?			
	a) Pointer		c) Cursor	d) Insertion point

## XII COMPUTER SCIENCE .(2) 15) Read the statements given below Identify the right option from the following for pie chart. Statement A: To make a pie chart with Matpfollib, we can use the plt.pie() function. Statement B: The autopot parameter allows us to dispay the percentage value using the Python string formatting a) Statement A is correct b) Statement B is correct c) Both the Statements are correct d) Both the Statement are wrong Part - II Note: Answer any six questions. Question No. 24 is compulsory: 6×2=12 16) What do you mean by Namespace? 17) What is an Algorithm? 18) Write short notes on Tokens. 19) What is slicing? 20) What is the purpose of Destructor? 21) What is normalization? 22) Differentiate Unique and Primary Key constraint 23) What is use of next() function? 24) Write a query that selects all students whose age is less than 18 in order wise. Part - III Note: Answer any six questions. Question No. 33 is compulsory: 25) Differentiate Concrete data type and abstract datatype 26) Why access control is required? 27) Explain Ternary operator with examples. 28) Differentiate ceil() and floor() function? 29) Explain the difference between del and clear() in dictionary with an example. 30) What is the role of DBA? 31) Differentiate PYTHON and C++? 32) Mention the difference between fetchone() and fetchmany() 33) Using if.....else...elif statement write a suitable program to display largest of 3 numbers Part - IV Note: Answer all the questions:-5×5=25 34) a) What are called Parameters and write a note on i) Parameter without Type ii) Parameter with Type [01] b) Discuss about Linear search algorithm. 35) a) Write a detail note on for loop. [or] b) Explain the following built-in-functions. b) chr() a) id() c) round() d) type() e) pow() 36) a) What are the different ways to insert an element in a list. Explain with suitable example. [10] b) Explain about string operators in python with suitable example. 37) a) Explain the different types of data model. [0r] b) Differentiate Excel file and CSV file. 38) a) What is the use of HAVING clause? Give an example python script. [or] b) Explain the various buttons in a matplotlib window