# A COMMON HALF YEARLY EXAMINATION - 2023

## STANDARD - XII

### COMPUTER SCIENCE

Time: 03.00 hrs					Marks: 70
		PART-A			
I. Choose the correct a	inswer:				15x1=15
1. The variables in a fur	nction definit	ion are called	as		
<ul><li>a) subroutines</li></ul>	<ul><li>b) function</li></ul>	c) definition	(	1) paramete	rs
2. Which of the following	ng is a comp	ound structure	?		
<ul><li>a) pairb) Triplet</li></ul>		c) singled)	quadrat		
3.The word comes from	the name of	f a Persian mat	hematicia	n Abu Ja'fa	r Mohammed
ibn-i Musa al Khowaria	zmi is called?	)			
a) Flowchart	b) Flowc) A	fgorithm	d) Synta	ix	
4. Which of the follow	ing shortcut i	s used to create	e new pyth	ion program	1?
a) Ctrl+C b) Ctrl+F		c) Ctrl+B	d) Ctrl+	N	
5. What is the output o	f the following	ng snippet?	-0		
i=1					
while True:		$\sim$			
if $i \% 4 = 0$ :					
break					
print (i, end= ' ')					
i+ = 1					
a) 1 2		c) 1 2 3 4			
6. Which of the follow	ing keyword	is used to beg	in the fund	tion block?	
a) define b) for		c) finally	d) def		
7. The subscribt of a st	ring may be:				
a) Positive	b) Negative	c) Both (a) o	r (b)	d) Either (a)	or (b)
8. Which of the follow	ing function	is used to coun	t the numb	per of eleme	ents in a list?
a) count ( )	b) find ( )	c) len	1()	d) index ()	
9. Which of the follow	ing method is	s automatically	executed	when an ob	ject is created?
a)()	b)d	lel() c	)func-	( )	d)init( )
10. Who is called father	r of Relation	al Database fro	om the fol	lowing?	
a) Chris Date		b) H	lugh Darw	een	
c) Edgar frankcode	d	d) Edgarfrankcadd			

#### www.Padasalai.Net (2) XII-COMPULER SCIENCE 11. Queries can be generated using a) SELECT b) ORDER BY c) MODIFY d) ALTER The expansion of CRLL is a) Control Return and Line Feed b) Carriage Return and Form Feed c) Control Router and Line Feed d) Carriage Return and Line Feed 13. Which of the following is not a scriptin language? a)Javascript b)PHP c)Perl **diHTML** 14. SQLite falls under which database system? a) flat file database system b) Relationall Database system c) Hierarchical database system d) object oriented database system 15. Which is a python package used for 2D charts? a) matplotlib.pyplot b) matplotlib.pip c) matplotlib.numpy d) matplotlib.plt PART-B II.Answer any 6 Questions: Question number 24 is compulsory. 6x2 = 1216. What is a subroutine? 17. What do you mean by Namespace? Write short notes on Tokens. 19. Write the syntax of range (). 20. What is slicing? 21. What is class? 22. What component of SQL lets insert values values in tables and which lets to create a table? 23. Write the expansion of (i) SWIG (ii) MinGW. 24. Mention the two ways to read a CSV file using python. PART - CIII.Answer any 6 question: Question number 33 is compulsory 6x3 = 1825. What are the different ways to access the elements of a list. Give example. → 26. List the characteristics of an algorithm. 27. List the differences between break and continue statements What is base condition in secursive function. 29. Write a short note about sort (). 30. Write the use of savepoint command with an example. 31. What is SQLite? What is it advantage? 32. Write any three uses of data visualization. 33. What will be the output of the given python program?

Kindly send me your answer keys to us - padasalai.net@gmail.com

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Str1 = "Welcome"

Str2 = "to school"

Str3 = str1 [:2] + str2[4:]

Print(str3)

#### PART - D

#### IV. Answer all the questions:

5x5 = 25

- 34.a) How will you facilitate data abstraction. Explain it with suitable example. (OR)
  - b) What is Binary search? Discuss with example.
- 35. a) Explain input () and print () functions with example. (OR)
  - b) Write a detail note on for loop.
- 36. a) Explain the scope of variables with an example (OR)
  - b) Explain the different set operations supported by python with suitable example.
- 37. a) Explain about constructor and destructor with suitable example. (OR)
  - b) Consider the following employee table. Write SQL commands for the qustions.

(i) to (v)

EMP CODE	NAME	DESIG PA	Y	ALLOWANCE
S1001	Hariharan	Supervisor	29000	12000
P1002	Shaji	Operator	10000	5500
P1003	Prasad	Operator	12000	6.500
C1004	Manjima	Clerk	8000	4500
M1005	Ratheesh	Mechanic	20000	7000

- To display the details of all employees in descending order of pay.
- To display all employees whose allowance is between 5000 and 7000.
- (III) To remove the employees who are mechanic.
- (IV) To add a new row.
- (V) To display the details of all employees who are operators.
- 38.a) Write any 5 features of python (OR)
  - b) Explain the purpose of the following functions:
  - a. plt.xlabel
  - b. plt.ylabel
  - c. plt.title
  - d.plt.legend()
  - e. plt.show ( )

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