Class: 12

A CONTRACTOR OF THE CONTRACTOR	(August)	2 1 1 1 1	19-14-15 Table 1	
Register			7 7 20	
Number	 6.7	100	1.7.	

## COMMON HALF YEARLY EXAMINATION-2024-25

Time Allowed: 3.00 Hours]	COMPUTE	ER SC	CIENCE		[Ma	x. Marks: 70
	PA	ART - I		ion,		15X1 = 15
Note: i) All the questions.			Also alicon	four	ltornatives	
ii) Choose the most a	ippropriate ans	wer troi	m the given	ioui a	allernatives (	and write
the option code and			mswei.			
1. Which of the following is a di	(b) Function	(c)	Definition	(d)	Modules	
2. Which of the following allow t				(4)	quadrats	
	(b) Lists	` '	Classes			a computing
3. Which of the following secur	ity technique that	at regula	ites who car	i use i	esources in	a companing
environment?		/ <b>L</b> \	Authoritod	ion		
(a) Password		(b)	Authenticat	.1011		
(c) Access control		(a) (	Certification			
<ol><li>Binary search is also called a</li></ol>	IS		0	طور و و و		
(a) Linear search		(c)	Sequential	5454		
(c) Random search		(d)				
5. Which of the following charac						
. (-7	(b) &	(c)	@	(d)	Þ	
6. range(30) what is the range			(C)		22	
	(b) 1	(c)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(d)	29	
<ol><li>While defining a function, whi</li></ol>			A CA			
	(b) . (dot)	The state of the s	(colon)	(d)	\$ (dollar)	
8. Which of the following is the	private class var					
(a) _num	(b) ##num	(c)	\$\$num	(d)	&#	34.
<ol><li>What symbol is used for SEL</li></ol>	ECT statement?					
(a) σ	(b) n	(c)	X	· (d)	Ω	
10.Queries can be generated us	sing					
	(b) ORDER BY	August - A	MODIFY		ALTER	:
11. Which of the following is a	string used to te	erminate	lihes produ	iced by	y writer() me	thod of csv
module?						The state of the s
(a) Line Terminator	(b) Enter key	(c)	Form feed	(d)	Data Termin	ator
12. Which of the following operat	or is used to acc	cess the	function of	importe	ed module.	
(a):	(b) .	(c)	,	(d)	+	·
13.What is the output of following	g code.					`
str="RAM"						
str[1]="O"		4.2				
print(str)		1 6, 31				
(a) RAM	(b) ROM	(c)	ROAM	(d)	ERROR	
14.Which of the following statem						
	(b) tup=(10.)				tup=(10);	
15.Which of the following is not a					, , , , , , , , , , , , , , , , , , ,	
	(b) AVG()	(c)	WHERE()	(d)	COUNT()	
						M/12/CS/1

## PART - II

## II. Answer any 6 questions: (Q.no: 24 Compulsory) 6x2=12 16. Differentiate Interface and Implementation. 17. What is a Pair? Give an example. 18. What is Mapping? 19. Write short notes on Exponent data? 20. List some examples of RDBMS. 21. Write a query that selects all students whose age is less than 18 in order wise. 22. Write a note on Replace() function. 23. How will you create a Class Object. 24. Write the syntax of csv.reader() and csv.writer () functions. PART - III III. Answer any 6 questions: (Q.no: 33 Compulsory) 6x3 = 1825. Identify Which of the following are List, Tuple and class? (a) arr [1, 2, 34] (b) arr (1, 2, 34) (c) student [rno, name, mark] (d) day:= ('sun', 'mon', 'tue', 'wed') (e) x:= [2, 5, 6.5, [5, 6], 8.2] (f) employee [eno, ename, esal, eaddress] 26. Write any Three Characteristics of Modules. 27. Differentiate ceil() and floor() function. 28. What is the difference between the write mode and append mode. 29. Differentiate PYTHON and C++. 30. Mention the difference between fetchone() and fetchmany(). 31. What is the use of end and sep Parameters in print() Function? 32. Write a note on List comprehensions. 33. Write the output of following code. str1 = "my favourite subject" str2 = "computer science" str3=str1[:5]+str2[len(str2)-2:] print(str3) PART - IV IV. Answer the following questions: 5x5 = 2534. a) Explain with example Pure and impure functions. (OR) b) What is Binary Search? Discuss with example. 35. a) Discuss in detail about Tokens in Python. (OR) b) Explain Recursive Function with an example, 36. a) Write the output of the following statements. >>> Tup1 = (12, 78, 91, "Tamil", (10, 20), 3.14, 69.48) >>> print(Tup1) >>> print(Tup1[2:5]) >>> print(Tup1[:5]) >>> print(Tup1[4:]) >>> print(Tup1[:]) (OR) b) Explain about Constructor and Destructor with suitable example. 37. a) Explain the different types of Relationship Mapping in Database. b) Write the Different Types of Constraints and their Functions. 38. a) Write the syntax for getopt() and explain its arguments and return values. (OR) b) Write the difference between Histogram and Bar Graph. KK/M/12/C.S/2