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NADAR HR.SEC.SCHOOL, RAJAPALAYAM. COMPUTER SCIENCE – JUNE - 2020



CLASS: 12

Time Allowed: 3.00 Hours Maximum Marks: 70

PART - I

I. Choose the most appropriate answer from the given four alternatives and	
Write the option code and the corresponding answer.	

 $15 \times 1 = 15$

1.	Which is the basic building block of computer prog	grams?	•
	(A) Argument	(B)	Parameter
	(C) Subroutine	(D)	Interface
2.	Which functions build the abstract data type?		
	(A) Constructors	(B)	Data
	(C) List	(D)	Tuple
3.	The process of binding a variable name with an ob	ject is	-
	(A) Scope	(B)	Marping
	(C) Namespaces	(D)	Memory
4.	Which one of the following is not a factor to measu	` ′	•
	(A) Speed of the machine	(B)	Operating system
	(C) Programming language used	(D)	Selection
5.	Which key is pressed to execute Python Script?	` ′	
	(A) F5	(B)	F2
	(C) F1	(D)	F3
6.	Which statement is used to skip the remaining part	of the	loop and start with next iteration?
	(A) break	(B)	pass
	(C) continue	(D)	null
7.	Which of the following keyword is used to begin the	ne fund	ction block?
	(A) define	(B)	def
	(C) finally	(D)	for
8.	In Python, which operator is used to display a strin	g in m	ultiple number of times?
	(A) * (multiplication)	(B)	+ (addition)
	(C) -(subtraction)	(D)	continue GANDA
9.	Marks = [20, 40, 60, 80, 100]		S. Com.
	print(Marks[-2])		2
	What will be the output?	(-)	100
	(A) 60	(B)	100 COMPUTER INSTRUCTOR Nadar H. sec. school Resipalsystem Mail-mail(e) 32,47756933 Mail-mail(e) 32,47756933
1.0	(C) 40	(D)	80 Mail: mrajivgandhibcomca@gmail.com
10.	In Python, which of the following class declaration		
	(A) class class_narne:	(B)	class class_name<>
	(C) class class_name		class class_name[]
11.	The Relational Database model was first proposed	-	
	(A) C.D. Darween	(B)	Chris Date
	(C) E.F. Codd	(D)	Hugh Darween
12.	Which is a Data Control Language command in SC	QL?	
	(A) Alter	(B)	Grant
	(C) Truncate	(D)	Commit
13.	CSV is expanded as:		
	(A) Comma Separated Values	(B)	Condition Separated Values
	(C) Comma Special Values	(D)	Condition Special Values
14.	Which of the following is not a scripting language	?	
	(A) Ruby	(B)	DBMS
	(C) Perl	(D)	JavaScript
15.	Which SQL function returns the number of rows in	a tabl	e ?
	(A) SUM()	(B)	MAX()
	(C) CHECK()	(D)	COUNT()

PART - II

II . Answer any six questions. Question No. 24 is Compulsory. $6 \times 2 = 12$ 16. List the characteristics of interface. 17. What are the characteristics of modules? 18. What are tokens in Python? List the types. What is the use of replace() in Python? Write the general format of replace(). 19. Write the syntax to create list with suitable example in Python. 20. What are the advantages of DBMS? 21. 22. What are the two ways to read a CSV file in Python? List the types of visualizations in Matplotlib. 23. 24. What are the advantages of user-defined functions? III . Answer any six questions. Question No. 33 is compulsory. $6 \times 3 = 18$ (a) What is a selector? (b) What are the parts of a program? 25. Write note on Dynamic Programming. 26. 27. Write the syntax of Nested if..e}if...else stotement with example. Write short note on public and private data members in Python. 28. 29. Write note on types of DBMS users. 30. Write short note on DELETE, TRUNCATE, DROP command in SQL. 31. What are the applications of scripting languages? (a) GROUP BY Write short note on: (b) ORDER BY clause - in SQL 32. 33. What will be the output of the given Python program? a="Computer" b="Science" x=a[:4]+b[len(b)-3:]print(x)PART - IV IV Answer all the questions. $5 \times 5 = 25$ (A) Explain the types of variable scope. (OR) Explain data types in Python with suitable example. 35. Write the output for the following Python programs. (A) (OR) (i) i=15while(j > = 10): print(j,end="\t") i=i-1else: print("\n End of the loop") (ii) k=15while(k < = 9): for I in range(1,k): print(i,end="\t") print(end="\n") k=k+1Write about the following Python string functions. (i) capitalize() (ii) swapcase() (iii) center() (iv) islower() (v) title() 36. (A) Debug the following Python program the get the given output: (OR) Inside add() function x value is: 10 Output: In main x value is: 10 Program: x=0define add: globally x: x = x + 10print("Inside add() function x value is :") add print("In main x value is :") What is set in Python? Explain the set operations with suitable example. (B) 37. (A) Explain about constructors and destructors in Python with suitable example. (OR) Explain the types of data model. (B) (A) Explain the types of constraints in SQL with suitable example. 38. List the differences between CSV and excel sheets (XLS) file.