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Virudhunagar District

Common Half Yearly Examination - 2023

Standard 12 COMPUTER SCIENCE

Tin	ne: 3.	00 Hours	COMPUTER SC	IENCE	(Idi Ka	
			Part - I		15×1=15	
I.	Ans	wer all the questic	ins.			
	1)	wer all the questions. Which of the following is constructed by placing expressions within square				
		brackets			d) quadrats	
		a) Tuples	b) Lists	c) Classes		
	2)	a) Tuples The process of bind	ding a variable nam	e with an obect is	d) early binding	
	-,	a) Scope	b) Mapping	c) Late binding	o of an algorithm?	
	3)	a) Scope Which of the follow	ing is used to desc	ribe the worst cas	A BIA O	
	3,	a) Big A	b) Big S	c) Big W	b) big o	
	4)	a) Big A The following chara	acters is used to giv	e comments in Py	thon program;	
		a) #	b) &	C) @	d) \$	
	5)	elif can be conside	red to be a abbrevi	atoin of	att if allf	
		- \ tod if	h) if also	@ else II	d) if elif	
	6)	Which of the follow	ing keyword is use	d to exit a functio	n block in Python	
		a) Define	b) finally	c) return	d) def	
	7)	is the string s	licing operator			
		a) []	<pre>b) { }</pre>	c) < >	d) ()	
	8)	Which of the follow	ing statement is n	ot correct		
		a) A list is Mutable		b) A tuple is Imr	nutable	
		c) The append () for	inction is used to a	dd an element	8 Pag	
		d) The extend () fu	uple to add eleme	nts in a list		
	9)	Class members are	accessed through	which operator?		
		2 / c	b) (dot)	c) #	d) %	
	10)	Who is called father	wing			
		a) Chris Date		b) Hugh Darwee	en .	
		e) Edar Frank Codd	ELGAR	d) Edgar Frank Cadd		
	11)	The command to d	elete a table includ	ing the strucure i	s	
		a√DROP	b) DELETE	c) DELETE ALL	e) ALIER TABLE	
	12)	The following mode	is used when deali	ng with non-text li	ke image or exe files	
		a) Text mode			d) CSV mode	
	13)	A frame work for in		nd C++ is		
		a) Ctypes	SWIG	c) Cython	d) Boost	
	14	Which SQlite claus	e is used to filter d	ata base on the g	roup functions?	
		a) HAVING	b) WHERE	e) ORDER	d) FILTER	
	15	In Python matplot	ib is a			
		a) control structur	re	b) dictionary		
		e) list		d) library		
			Part - II			
I	. An	swer any six quest	. 24 is compulso	ry. 6×2=12		
		What is an impure function?				
	17	What is Abstract of	lata type?			
	18	What is Mapping?				
		What is the use of	Lambda function?			
			low will you create constructor in Python?			
	21	List any 2 advantages of RDBMS.				
	22	Write the SQL stat	ements using 'BETV	VEEN' and 'NOT BE	TWEEN' keywords.	
				17.6		

23) Write the syntax of Python's OS Module.

247 What is Data Visualization?

-	Anguarani	Part - III

III. Answer any six questions. Question No. 29 is compulsory.

25) Write note on Asymptotic notation.

- Explain Ternary operator with example.
- 27) Write the syntax of while loop.
- 28) How Recursive function works?
- 29) Write a Python program to calculate area and circumference of a circle using classes & objects.
- 30) Write short note on ER model.

Explain the syntax of UPDATE SET command.

32) Tabulate the differences between Excel file and CSV file (any three)

Write about the special variable ____ name ____ in Python

Part - IV

IV. Answer all the questions

5×5=25

6×3=18

34) Explain with an example interface and implementation.

(OR)

Write any 5 characteristics of Modules.

Explain the concept of Dynamic programming with suitable example.

(OR)

Describe in detail about the procedure of script mode programming.

Write a detail note on if-else-elif statement with example.

(OR)

Explain any 5 Built-in string functions in Python.

Write a Python program that prints maximum and minimum value in a Tuple.

(OR)

Write the rules to be followed to format the data in a CSV file.

Explain the usage of aggregate function in SQlite through Python program.

(OR)

What is a Pie-Chart? How will you draw pie-chart using matplotlib.

set operation?