	Title						
							4 11
	Last name			407			
	First name	altin il					
131 M	Mobile number	· ·					
#E 116	Email Id					- 1/0/17	4.
	Date of arrival						
	Date of departure			Jv.			
	Payment method						
	Room preference O King Bed O Twin Two bed						FOX .
	Insert Update						
	Delete Select						
	Delete Select						
	(OR)						
b	b. Create a table for student with the following fields (Reg_no, Stud	name Sev and		3.	2	3	
	create a table Dept with the following fields (dept_no primary key,	dent nama)		6 6	-	3	
	(i) Insert few records and do the following	rchr_name)	2				
	(ii) Display the student reg_no, name and dept-name		2				
	(iii) Display the student names ending with 'a'	-	2			8	
	(iv) Display all female student name	Grantist negative and	2				
	The state of the s		2				
	(v) Display the student names by descending order		2				
30. a	a. Hanry needs to create a bank class with initial balance of 10000 w						
	and denosit methods are serely in 1 G	ho's withdrawn	12	3	3	3	
	and deposit methods are synchronized. Supply one thread,	which keeps					
	withdrawing 3000 from the account for 5 times when there is no su	fficient funds it					
	nas to wait.						
	Similarly, the second thread keeps depositing amount of 2000 if	nto the account					
	for 5 times. Ensure both threads run in tandem without conflicts.	Holm He account					
2.0	implement the above scenario using python multithreading concept	Help Hanry to					
	condition.	of without race					
	ondition.						
	(OR)						
Ъ.	command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the command which will be executed at the line in the line i		12	2	2	•	
	command which will be executed at the client side as a process of res	server issues a	12	3	3	3	
	execution.	note command					
	on out the same of						
31. a.i.	Write a python program to square and cube every number in a given	11					
	using Lambda.	list of integers	6	3	4	3	
	using Danioua.						
ii	Write a nython program to file 1						
11,	. Write a python program to filter only vowels from the sequence.		6	3	4	3	
	(OD)						
h	Write a rate on the C.11						
υ.	Write a note on the following functional tools with suitable example			3	4	3	
	(1) Lazy evaluation		4				
	(ii) Closure		4				
	(iii) Pure functions		4				
32. a.i.	. Construct DFA for the following conditions Let $\Sigma = \{0, 1\}$. Give I	NEA2- C. ()	6	2	_	•	
	(c) ∇^* and ∇ .	JFA's for { },	6	3	5	3	
	$\{\epsilon\}, \ \Sigma^* \ \text{and} \ \Sigma+.$						
ii.							
11.	Write automata code for $L(M) = a + aa^*b$.		6	3	5	3	
4 .	(OR)						
b.1.	Write a automata code for the language that accepts all and only the	se strings that	6	3	5	3	
	contain 001.	or ourigo uiai			_	5	
;;	Write a cutemate - 1 C T(15)						
11.	Write a automata code for $L(M) = \{w \mid w \text{ has an even number of 1s}\}$	•	6	3	5	3	

Reg. No.			MATE.	Market	4.20		736	EW:		2
•		138		WEEP		140			30.3	

B.Tech. DEGREE EXAMINATION, MAY 2023

Fourth Semester

18CSC207J - ADVANCED PROGRAMMING PRACTICE

Note:	(For the candidates admitted during the academic year 2018-2019 to 2021-2022	")			
(i) (ii)	Part - A should be answered in OMR sheet within first 40 minutes and OMR shover to hall invigilator at the end of 40 th minute. Part - B & Part - C should be answered in answer booklet.	eet shoul	ld be	har	nded
Time: 3		Max.	Mar	ks: 1	100
	$PART - A (20 \times 1 = 20 Marks)$	Marks	BL	СО	PO
	Answer ALL Questions			137	
1.	Which of the following declarations is incorrect in python language?	- 1	1	1	1
	(A) $xyzp = 5,000,000$ (B) $x,y,z,p = 5000,6000,7000,8000$		1-		
	(C) $x y z p = 5000 6000 7000 8000$ (D) $x_yz_p = 5,000,00$				
2.	What will be output of the following python code?	-	7=		39
	aList = ["SRMIST", [4,8,12,16]], print (aList [0] [1], aList [1] [3])		1	1	2
	(A) R16 (B) I4				

	(C) M12	(D) S16				
3.	How many objects and references A:	ence variables are there for the given python of	code?	1	1	1
	print ("Inside cla	SS")				

A() A() obj = A()(A) 2 and 1 (B) 3 and 3 (C) 3 and 1, (D) 3 and 2

4. Choose the correct option with respect to python. (A) Tuples are immutable while list (B) Both tuples and lists are immutable

are mutable (C) Tuples are mutable while list are (D) Both tuples and lists are mutable

immutable

5.	Crea	te a lambda function that	akes one n	aram	neter (a) and returns it	28	1	2	2	,
	(A)	x = lambda a x = lambda a:a lambda		(B)	x = lambda x = lambda a:a		<u>-</u>	2	2	2

6. Sqlite2 query to modify the record is 1 2 2 2 (A) Modify (C) Insert (B) Update

	(C) Insert	(D)	Delete				
7.	To fetch the data, which function we use (A) fetch ()		n the select query?	1	1	2	2

(B) rawquery () (C) executequery () (D) execute ()

8. Essential factor to make a window screen using tkinter python? 2 2 2 (A) Create a label (B) Geometry function (C) Call tk() function

(D) Create a label and geometry function Page 1 of 4

9.	. 1	will be output of the following pyth from functools import reduce def do_sum (x1, x2)	on co	ode?	1	1	3	3
	(A)	return x1-x2 print(reduce (do_sum, [1,2,3,4])) 8 -7	(B) (D)	8 9				
10.	What	is the output of the following code b = 1	?		1	1	3	3
	*	def func (a); return (a**3) b = func (b) * * 3						
	(A) (C)	print (func (b)) 1 3	(B) (D)	9 27				
11.	(A)	Process	(B)	while accessing shared resources. Thread	1	1	,	2
	(C)	Synchronization	(D)	Race condition	1	1	3	1
12.	Func as	tion involving reading files, using	globa	I data, random number are referred to		•	5	-
	(A) (C)	First-order function Impure function	(B) (D)	Higher-order function Closure function				
13.	Bind (A) (C)	() needs for binding with socket IP address and port number Socket family and port number	(B) (D)	IP version and port number Socket type and port number	1	2	4	1
14.	Wha	t does a threading. Lock do? Pass messages between threads	(B)	Allow only one thread at a time to access a resource	1	1	4	1
	(C)	Synchronize threads	(D)	Wait until a thread is finished	1	2	4	2
15.	Iden (A) (C)	tify the correct syntax from the foll pydatalog.create_terms('X, Y') pyDatalog.create_terms('X, Y')	owing (B) (D)	pyDatalog.create1erms(X, Y)	1	2	4	2
16.	STR (A) (C)	EAM and DGRAM is purely mean UDP and TCP FTP and TCP	t for (B) (D)	× 1 TIPOD	1	2	4	1
17.	(A) (C)	from sympy import* rslt = 00 + 10000 print ("value of rslt is: "+str (rslt)) value of rslt is: 1000 value of rslt is: NULL) (B) (D)					
18	` '	ich of the following is not a part of		le finite automata?) Transition function	1	1	5	5 2
19	, ,	d the correct syntax for the expression $sym.diff(sym.tan(2*x),x)$	(B) $sym.diff(sym.cos(2*x),x)$	1	1		5 1
age 2 o	• •				31MA	4-180	CSC2	07J

20. A push down automation employs data structure. (A) Queue	1	2	5	2
PART – B (5 × 4 = 20 Marks) Answer ANY FIVE Questions	Marks	BL	CO	PO
21. Explain the four types of function arguments.	4	2	1	2
22. Write a python program to calculate Fahrenheit and Celsius using map () function and print the temperature in Fahrenheit and Celsius.	4	3	1	2
 Compare imperative programming paradigm with declarative programming paradigm with example. 	4	2	2	2
24.i. List the various states of threading.	2	2	3	2
ii. Differentiate multithreading from multiprocessing.	2	2	3	2
25. Create the below table and insert two rows into the table. Student reg no: Primary key Sname: varchar (20) Sec: Char (10) DOB: Date	4	3	2	2
26. Give the importance of the following function in the symbolic programming paradigm. limit() diff() integrate() expand()	1 1 1	2	5.	2
27. Specify three types of socket methods available in python socket library.	4	2	4	2
PART – C ($5 \times 12 = 60 \text{ Marks}$) Answer ALL Questions	Marks	s BL	, со	PO
28. a.i. Brief about three main categories of control structures.	4	3	1	2
 Write a python program to find a factorial of given number using recursion, the function accepts the number as an argument with classes and objects. 	8	3	1	2
b. Enumerate on the following with suitable example (i) Map (ii) List (iii) Set (iv) Tuple (v) Dict	2 2 2 2 2			
 a. Write a python program to design a registration form for hotel roo accommodation using tkinter. 	m ¹²		3 2	2 3