<u>Class –XII</u> Sub –Computer.Sci (083)

MARKS: 70

General Instruction:

- 1. The question paper is divided into 5Sections A To E
- 2. Section A, consists of 18 Questions carrying 01 mark each
- 3. Section B, consists of 07 Very short Type Questions carrying 2 marks each.
- 4. Section C, consists of 05 Short Answer type Questions carrying 03 marks each.
- 5. Section D, consists of 03 Long Answer type Questions carrying 05 marks.
- 6. Section E, consists of 02 Questions carrying 5 marks each. One internal choice is given in Q35 against Part C only.
- 7. All programming questions are to be answered using Python Language only.
- 8. There will be no negative marking for the wrong answers.

	<u>Section-A</u> Each Question carries One mark	
1	Data structure stack is also known as a. First in First Outb). First in Last Outc). Last in First Outd). All	1
2	When a stack size is full and no new element can be inserted, it is calleda) Overflowb). Underflowc). Extraflowd). NoFlow	1
3	Evaluate the following arithmetic expression A which is in postfix notation inserted in a stack .What will the output after execution of stack . A=(30, 5, 2, **, 12, 6, /, +,) a) 3 b) 27 c). 57 d) 60	1
4	Consider a declaration L = (1, 'Python', '3.14'). Which of the following represents the data type of L? a. list b. tuple c. dictionary d. string	1
4	What will be the output of the following Python code? print('abcdefcdgh'.partition('cd')) a) ('ab', 'cd', 'ef', 'cd', 'gh') b) ('ab', 'cd', 'efcdgh') c) ('abcdef', 'cd', 'gh') d) error	1
5	What is the output of the following? print("xyyzxyzxzyy".count('yy', 2)) a)2 b) 0 c)1 d)error	1
6	What is the output of the expression : $3*1**3$ a)27 b)9 c)3 d)1	1
7	Suppose list1 is [3, 4, 5, 20, 1, 5, 25, 1, 3, 1], what is list1 after list1.pop (1)? a)[3,4,5,20,5,25,1,3,1] b)[3,4,5,20,1,5,25,1,3] c)[3,5,20,1,5,25,1,3,1] d)[3,4,5,20,1,5,25,3,1]	1

TIME: 3 HRS

8	What will be the output of the following code?	
	Fruits = ('Banana', 'Grapes', 'Mango', 'WaterMelon')	1
	print(max(fruits))	-
	print(min(fruits))	
	a.WaterMelon, Mango b.WaterMelon, Banana	
	c. WaterMelon, Grapes d.Banana, WaterMelon	
9	Which of the following operator cannot be used with string data type?	
	+ b. in c. * d. /	1
10	What will be the output after the following statements?	
	x = 25	
	if $x \ge 10$ and $x \le 15$:	
	print('true')	1
	elif $x \ge 15$ and $x \le 25$:	1
	print('not true')	
	elif $x \ge 25$ and $x \le 35$:	
	print('false')	
	else:	
	print('not false')	
	True b. false c. not true d. not false	
11	What will be the output after the following statements?	
	b = 1	
	for a in range(1, 10, 3):	
	b += a + 1	
	print(b)	1
	a. 14b. 16 c. 20 d. 25	
12		
	Which of the following is the output of the following python code?	
	str1="TamilNadu"	1
	print(str1[::-1])	
	(a) Tamilnadu (b) Tmlau (c) udanlimaT d) udaNlimaT	
13	If List=[10,20,30,40,50] then List[2]=35 will result	
	(a) [35,10,20,30,40,50] (b) [10,20,30,40,50,35]	
	(c) $[10,20,35,40,50]$ (d) $[10,35,30,40,50]$	1
14	What will be the output after the execution of the following statements? capital	
	= {'India': 'Delhi', 'SriLanka': 'Colombo'}	
	capital = list(captial.values)	1
	a. [Delhi] b. ['Delhi', 'Colombo'] c. ['Colombo'] d. Error	
	a. [Denn] b. [Denn, Colombo] c. [Colombo] d. Enor	
15	Which of the following statement(s) would give an error after executing the	
	following code?	
	str1="Welcome to class XII" # Statement 1	
	print(str1) # Statement 2	
	str1="Thank you" # Statement 3	1
	str1[0]='@'	
	str1=str1+"Thank you" # Statement 5	
	a) Statement 1 b). Statement 2 c). Statement 3 d). Statement 4	
16		
10	of some other table	
	a). Primary b). Foreign Key c). Candidate key d). Alternate key	1
	a, rinnary of rotoign itoj of cundidato koy a). rinoritato koy	1

17		
17	Which of the following mode in the file opening statement result generate an error if the file does not exist	
		1
18	a). a+b). r+c). w+d). NoneWhich of the following command will delete the table from mysql database	1
10	a). Delete table b). Drop table c). Remove table d). Alter table	
	a). Delete table b). Diop table c). Remove table d). After table	1
	Section-B	-
19	Which of the following command will delete the table from mysql database	
	What is the output produced by the following code	
	obj=open("new.txt","w")	2
	Obj.write("A poem by Paranhansa Yogananda")	
	obj.write("Better Than Heaven or Arcadia")	
	obj.write("I love Thee ,o my India")	
	obj.write("and thy love I shall give")	
	obj.close()	
	obj1=open("new.txt","r")	
	s1=obj1.read(48)	
	print(s1)	
	obj1.close()	
20	Write the different between read(), readline() and readlines() function in Python	2
	file.	
21	Consider the following code and then answer the questions follow.	
	mydict={'a' :27, 'b ':43, 'c' :25, 'd':30}	
	valA=' '	
	for i in mydict:	2
	if(i>valA):	2
	valA=i	
	valB=mydict[i]	
	print(valA) #Line1	
	print(valB) #Line2	
	print(30 in mydict #Line3	
	mylist=list(mydict.items())	
	mylist.sort() # Line4	
	print(mylist[-1]) #Line 5	
	i) What does the Line 1 produce? (ii) What output does Line 2 produces	
	(iii). What does the Line 3 produce? (iv) What does the Line 5 produce?	
	(v) what is return value from the list sort() function in Line 4	
22	Explain the use of Primary Key in Relation database Management System. How to	2
	define Primary key in a table?	_
23	a) What is the use of count(),max() and sum() function in SQL	2
_	b) What is the use of DISTINCT keyword in SQL.	
24	Predict the output of the Python code given below	
	num=1	
	def myfun():	
	num=10	2
	return num	2
	print(num)	
	print(myfun())	
	print(num)	

				OR					
	def call(p	=40,q=20):							
	p=p+c	1							
	q=p-q								
	print(j	p,'@',q)							
	return	p							
	r=200								
	s=100								
	r=call(r,s	,							
	print(r,'@	v/,s)							
	s=call(s)	n)' a)							
5	print(r,'@		int() or	nd max() funct	tion in SOL wi	th approp	isto oxomplo		
5	Different	Detween cot	iiii() ai	OR		ui appiopi	late example		
	Categorie	es the follow ²	ing con	nmand as DDI	or DML			2	
	-	ete,update,dro	-						
\square		,	~Y		~			_	
6				Section					
U				Employee -					
	Name			Dept	S	Salary			
	Amit			Comp		000			
	Suresh			ales		000			
	Vimal			Comp		000		1.0	
	Ramesh			Akt		500		1+2	
	Naresh		S	ales	5	400			
	· •	te employee	. 50						
	,	et salary=sala	ry+50	J;					
	3) Update employee4) Set salary=salary+1000								
	,	e dept='Sale							
				from employee	1				
5) Select DiSTINCT Dept from employee									
	b). <u>Table – CLUB</u> Coach-Id CoachNa Age Sports Date of App Pay Sex								
		CoachNa me	Age	Sports	Date of App	Pay	Sex		
	Coach-Id		Age 35	Sports Karate	Date of App 27/03/1996	Pay 1000	Sex M		
	Coach-Id 1 2	me Kukreja Ravina	35 34	-	27/03/1996 20/01/1998	-			
	Coach-Id	me Kukreja	35	Karate	27/03/1996	1000	M		
	Coach-Id 1 2 3 4	me Kukreja Ravina	35 34	Karate Karate	27/03/1996 20/01/1998	1000 1200	M F		
	Coach-Id 1 2 3	me Kukreja Ravina Karan	35 34 34	Karate Karate Squash	27/03/1996 20/01/1998 19/02/1998	1000 1200 2000	M F M		

27		e a method in F t file 'Story.txt	•				Y'v	vords presents I	3		
	Mv f	ïrst book									
	Was Me and My family. It gave me										
	char										
		wn to the									
	world										
		output of the f		ld be							
	Cour	nt of Me/My in	The is	Or							
	b) W	Vrite a function	that conies a	-	ce tx	t" onto "ta	roet	txt" harring			
		ines starting wi	-	text me bour	CC.IA	i onto ta	igei	.txt barning			
28				Staff Tabl	e						
	a)				_						
	ID	Staff_NAME	Staff_AGE	STAFF_ADDI S	RES	Salary	D	epartment			
	1	ARYAN	22	MUMBAI		18000	Co	omputer Sci	3		
	2	SUSHIL	32	DELHI		20000	Hi	story			
	3	MONTY	25	MOHALI		22000	Μ	aths			
	4	AMIT	20	ALLAHABAD)	12000	Hi	History			
	5	Shyam	23	Delhi		15000	Maths				
	6	Ram	45	Mumbai		18000	Computer Sci				
				Payment Table					_		
		_		Staff_ID		partment	t i	AMOUNT	_		
	101 102		<u>30/12/2009</u> 22/02/2010	1 3	-	story ths		3000.00	_		
	102		23/02/2010	4	-	mputer Sci		2500.00 3500.00	-		
						inputer Sci		3300.00	_		
	(1) SE	ELECT Staff_ID,	Staff_NAME, Sta	aff_AGE, AMOU	NT						
	FRO	OM STAFF s, PA	YMENT p								
	WF	HERE s.ID =p.S	STAFF_ID;								
	(II) s	elect staff_nam	ne, avg(Salary)) from staff							
	Grou	ıp by	- •								
	(III)	select staff_nai	ne,salary, S.D	epartment, am	ount	from Staff	S, 1	Payment P			
		re S.departmen	-			000					
29		Vrite the comm				nat contain	c N	ame and salary.	3		
),'Ramu':1750}			
	A. P	w Perform the f USH a stack to OP and display	store name of	those employe			y <2	25000.			

30	Given a list, and we have to create two lists from first half elements and second half elements of a list in Python.3Input List1=[10,20,30,40,50,60]0OutPut List2=[10,20,30] List3=[40,50,60]1b). Write a Program in Python to Find the Smallest and the Largest List Elements on Inputs Provided by the User.								
				Section-	D				
31				Table-St	tudent				
01	S.no	Name	Stipend	Stream	AvgMarks	Grade	Class	2+3	
	1	Karan	400.00	Medical	78.5	В	12B	213	
	2	Divakar	450.00	Commerce	89.2	Α	11C		
	3	Divya	300.00	Commerce	68.6	C	12C		
	4	Arun	350.0	humanities	73.1	B	12C		
	5	Sabina	500	Nonmedical	90.6	A	11A		
	6	John	400	Medical	75.4	B	12B		
	7	Robert	250	Humanities	64.4	C	11A		
	8	Rubina	450	Nonmedical	88.3	A	12A		
	9	Vikas	500	nonmedical	92.0	A	12A		
	-								
	Write the SQL command for the following on the basis of given table Student (a) Select all the nonmedical stream students from student.								
				those students w			v stipond		
							y supend		
				rted by avgMark	-	order.			
) whom stream i					
		-		llowing SQL sta		75			
			-	from student wl	-	>=/3			
				rom student when					
			· ·	CT) from studen	t.			_	
32	a) Th			n the following					
		Better than	heaven or	Arcadia					
		I love thee	,O my Indi	ia !				2+3	
		And thy lo	ve I shall g	ive					
		To every b	orother I sha	all give					
		•		on that lives					
	Consi	•		t output will be	produced by t	he followir	ig code		
		open("New.t			_		0		
	5	1.readline()	, ,						
	-	1.readline()							
	-	1.readline()							
	s4=obj1.read(15) print(s4)								
		-							
	obj1.cl		oftent 1.	hogo containe (1	-1	n halar			
			e of test data	abase contains th		n below			
		Title			SBN				
		Die to Live		7	8127873915				
	A	Again?		2	3686286243				
	Ushakaal 12678987036								
	τ	Jshakiran			2568987036				

	import n	nysql.connect	or as mysql						
	conn=mysql.connect(host="localhost",user="root",password="root",database="test"								
	cursor= Statement 1								
	cursor. execute("select * from book") row=Statement 2								
		w in not Non		Statement 2					
		w in not Non int()		Statement 3					
	-			Statement 3					
	row=cursor.fetchone() OR								
	Find the out	tput of the fo	llowing code						
	a=10	-	C						
	def call()):							
	globa								
	a=15								
	b=20								
	print call()	(a)							
33	<i>v</i>	ram to create	a CSV file to	store student d	ata(Roll No.	Name, Marks).obtain	5		
00	1 0		ite 10 records i		· · · · · ·	, ,	C		
	(1) AD	D() to accept	and add data o	of a student to a	a CSV file 'r	ecord.csv'.			
	(2) Cou	ntr() :- to cou	nt the records		ose have ma	rks more than 76.			
	XX 1. C			OR	1 (*1 1	. 1			
	Write a func	tion stats() th	at accept a file		orts the file lo	ongest line.			
				<u>:tion-E</u>					
34	Naveen created a table Sales with a set of records maintain the sales of months. After creating table he has entered 5 records						1+1 +2		
	Room-No	Name	January	February	March	Total			
	1001	Karan	2500	2500	2400	7400			
	1002	Ramesh	2200	2100	2500	6800			
	1003	Vimal	2450	1200	2300	5950			
	1004	Narain	3200	2540	3600	9340			
	1005	Naman	2560	3600	4500	10660			
	Based on the data given above answer the following questions								
	i. Identify the most appropriate column which can be a primary key.								
	ii. If two column are added, what will the new degree and cardinality of the above table.								
	iii. Writ	e the stateme	nt						
	a. Insert a new records in a table.								
	b. Show the commission of 20% from total.								
			-	on for part III o	only)				
	iii. Write the statement								
	a. Add a new filed march with char data type in a table.								
35	b. Fill the value of march field with value 3000 in all rows.						2+2		
55	a) Write a function that receives two string and store all the vowels of both strings in a new string. After that display the new string.								
		-	-	-	-	a dictionary and print			
its keys.									
	Info	={'Riva': 'C	SC', ' marks' :	: 'Eco' . 'Preet	': 'Eng'. 'K	[amal' : 'Evs']			