KENDRIYA VIDYALAYA SANGATHAN, DELHI REGION 2nd PREBOARD EXAMINATION 2020-21 Class XII Subject: Computer Science (083)

Maximum Marks: 70

Time Allowed: 3 hours

General Instructions:

- 1. This question paper contains two parts A and B. Each part is compulsory.
- 2. Both Part A and Part B have choices.
- 3. Part-A has 2 sections:
 - a. Section I is short answer questions, to be answered in one word or one line.
 - b. Section II has two case studies questions. Each case study has 5 case-based subparts. An examinee is to attempt any 4 out of the 5 subparts.
- 4. Part B is Descriptive Paper.
- 5. Part- B has three sections
 - a. Section-I is short answer questions of 2 marks each in which two question have internal options.
 - b. Section-II is long answer questions of 3 marks each in which two questions have internal options.
 - c. Section-III is very long answer questions of 5 marks each in which one question has internal option.

6. All programming questions are to be answered using Python Language only

Q.No	Part A	Marks						
	Section-I	•						
Se	elect the most appropriate option out of the options given for each question. Attempt an	iy 15						
	questions from question no 1 to 21.							
1	Which one of the following is a valid identifier:							
	iname							
	ii. Roll.no							
	iii. while							
	iv. No#1							
2	Write any two immutable data type of python.	1						
3	Consider a list	1						
	L=[1,2,[3,4],5]							
	What will be the output of print(L[2]).							
4	Consider a dictionary:							
	D={1: "JAN", 2: "FEB",3: "MAR",4: "APR"}							
	Write python code to add one more key-value pair in the above dictionary with key 5 and value "MAY".							
5	Name the built-in function / method that is used to return the length of the given	1						
	object.							
6	Identify the valid declaration of Data:	1						
	Data=(1,"Flower","Plant",2,3,"Tree")							
	(a)List (b) Tuple (c) Dictionary (d) String							
7	Which one of the following is the valid relational operator in Python?	1						
	i. and							

	ii. +=	
	iii. !=	
	iv. =	
8	Consider a list List=[10,20,30,40], which of the following statement will result in an	1
	error:	
	i) L[0]=L[0]+2	
	ii) L=L+2	
	iii) L=L*2	
	iv) L[1]=50	
9	Which Switching Technique establishes a dedicated path between sender and	1
	receiver?	
10	Which software program helps website to store the information about visitors like	1
	user name, password and other details?	
11	If the following codes are executed, what will be the answer:	1
	>>> Str="StayHomeStaySafe"	
	>>> print(Str[3:13:2])	
12	In MYSQL this constraint does not allow NULL Values in a column.	1
13	In RDBMS a row is also known as:	1
	i. Attribute	
	ii. Relation	
	iii. Field	
	iv. Tuple	
14	Write the output of following code:	1
	<pre>def func():</pre>	
	global X	
	X=10	
	X=5	
	func()	
	print(X)	
15	In MYSQL, this clause is used to display the data of table in ascending or descending	1
	order.	
16	In MYSQL, this command is used to add rows in a table.	1
17	With reference to the RDBMS, define Alternate Key.	1
18	Roshan wants to display the details of those students whose PHONE_NO are not	1
	mentioned in table STU_DATA. He wrote the following query but not getting the	
	output:	
	SELECT * FROM STU_DATA WHERE PHONE_NO = NULL;	
	Help Roshan to remove the error in above query.	
19	Rearrange the following terms in increasing order of their scope of network:	1
	WAN,PAN,MAN,LAN	
20	Harassing, Demeaning, Defaming, embarrassing or intimidating someone using	1
	computer or electronic devices comes under which type of the cyber-crime?	
21	Which one of the following is a malicious program that can self-replicate:	1
	(i)Virus (ii) Worm (iii)Trojan Horse (iv) Spam	
	Section-II	
	Both the Case study based questions are compulsory. Attempt any 4 sub parts from	
	each question. Each question carries 1 mark.	

22	A library use	s database management s	ystem using SQL to store th	e details of its	
	books. The d	latabase administrator has	decided the following arra	ngements for this	
	database:				
	Name of dat	abase: Library			
	Name of Tab	ole: BOOKS			
	The attribut	es of the table Books are:			
	BOOI	K_ID: numeric			
	TITLE	: varchar			
	AUTH	IOR_NAME varchar			
	QUAI	NTITY numeric			
	Table:BOOI	KS			
	BOOK_ID	TITLE	AUTHOR_NAME	QUANTITY	
	B1103	Glimpses of World	Jawaharlal Nehru	25	
		History			
	B1104	Hind Swaraj	M K Gandhi	22	
	B1105	Exam Warrior	Narendra Modi	22	
	B1106	Wings of Fire	A P J Abdul Kalam	29	
	B1107	Gitanjali	Rabindranath Tagore		
	B1108	Malgudi Days	R K Narayan	34	
	B1109	India of My Dreams	M K Gandhi	30	
	B1110	Gora	Rabindranath Tagore		
a)	Identify the	attribute which best suital	ole to be declared the prima	ry key of table	1
	BOOKS.				
b)	Write the de	egree and cardinality of the	e above table 'BOOKS'.		1
c)	Which comn	nand out of the following v	vill be used if Mr Amit want	s to increase the	1
	quantity of I	BOOK_ID B1103:			
		table			
	ii. Upda				
	iii. Modi	,			
	iv. Chan	-			
d)			AUTHOR_NAME from table	BOOKS.	1
e)		Itput of the following quer	-		1
	1	(QUANTITY) FROM BOOKS;			
23		• •	ift store in a csv file named	•	
			ems of her gift store.She ha		
			elp her to successfully exec	ute her program	
	in pytho	n:			
	import _		# Line 1		
		File(Gift_code,Gift_name)			
		<pre>=open("gift.csv",'') </pre>	#Line 2		
		N=csv(F)	#Line 3		
		W.writerow([Gift_code,Gif	L_name)		
		close() for reading			
	def readFile	for reading			
	with		F #Line 4		
1	VVILII	(girt.csv, i j as newi			

	EP-csy roader(powE)	
	FR=csv.reader(newF) for row in FR:	
	if row[0]==101:	
	print(row)	
	newF.close()	
	writeFile(101,"Photoframe")	
	writeFile(102,"Soft Toys")	
	writeFile(103,"Flower Pot")	
	readFile() #Line 5	
a)	Name the module she should import in line 1.	1
<u>b)</u>	In which mode Puneeta should open the file to add data in it?	1
c)	Fill in the blanks in Line 3 to write data to csv file gift.csv.	1
d)	Fill in the blank in Line 4 to open the csv file from the disk.	1
e)	Write the output she would obtain after executing the code of line 5.	1
	Part B	
	Section 1	
24	Evaluate the following expression:	2
	(a) 22%4**2//4+8	
	(b) ((4>5) and (3!=3) or(4>=3))	
25	Write two points of difference between HTML and XML.	2
	OR	
	Write any two activities which are punishable under cyber crime.	
26	Write the full forms of the following terms:	2
	(i) IPR (ii)VOIP (iii)HTTP (iv) GPRS	
27	What do you mean by the default parameters in python? Describe with example.	2
	OR	
	Differentiate between arguments and parameters in python with suitable	
	example.	
28	Rewrite the following codes in python after removing all the syntax errors.	2
	Underline each correction done in the code:	
	def func(n)	
	sum=0	
	for x in range(0: n):	
	sum=+x	
	Return sum	
29	What possible output(s) are expected to be displayed on the at the time	2
		-
25	execution of the program from the following code Also shecity the minimum	
25	execution of the program from the following code. Also specify the minimum and maximum value of variable X.	

	import random						
	AR=["MON", "TUE", "WED", "THU", "FRI", "SAT"]						
	X=random.randint(0,4)						
	<pre>for I in range(1,X+1):</pre>						
	<pre>print(AR[I]+"#", end="")</pre>						
	(i) TUE#WED#THU#FRI#						
	(ii) MON#TUE#WED#THU#						
	(iii) TUE#WED#THU#FRI#SAT#						
	(iv) TUE#WED#						
30	Mr Mehta is running two queries in mysql to obtain total number of values in	2					
	column SALARY of EMP table using COUNT function, but he is getting variation						
	in output: Table: EMP						
	ENO SALARY						
	101 50000						
	102 60000						
	103 51000						
	104						
	105 45000						
	(I) SELECT COUNT(*) FROM EMP; OUTPUT-5						
	(II) SELECT COUNT(SALARY) FROM EMP; OUTPUT-4						
	Explain the reason of variation in the output of above queries.						
31	Explain the following functions:	2					
	(i) fetchall()						
	(ii) rowcount()						
32	Differentiate between the where and having clause in MYSQL with suitable	2					
	example.	-					
33	Find and write the output of following python code:	2					
	<pre>def convert(S): newS=""</pre>						
	L=len(S)						
Î.							
	for i in range(L):						
	<pre>if S[i].isupper():</pre>						
	<pre>if S[i].isupper():</pre>						
	<pre>if S[i].isupper():</pre>						
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even element of Arr by the half of values of even elements and odd elements by the twice of values of odd elements. Display the elements of array. Sample input data of Arr: [5,8,7,10,12] Output should be: [10,4,14,5,6] 3 35 Write a function COUNT_is_am_are() that reads the content of the file story.txt and display the occurrence of is, am and are present in the file. If the contents of the story.txt are as follows: Children are studying while I am doing my work. What is Ravi doing? The output should be: Count of is/am/are in file are:3 OR 3 0R Write a function countlines() that reads the content of file poem.txt and count those lines which are having 5 or less words. If the contents of the poem.txt are as follows: 1 If only desire of it Makes you up the mad enough Never to tire of it, Makes you hold all other things tawdry and cheap for it 1 The output should be: Number of lines having words 5 or less are:3 1 36 Write the outputs of the SQL queries (i) to (iii) based on the relations TEACHER and DEPT given below: Table : TEACHER 10 101 AASHYA 39 102 NAME AGE 103 SAMAR 30 104 AASCHI 32 105 NAME AGE 106 HANNIN 32 107 NAME AGE 108 <td< th=""><th>34</th><th></th><th></th><th></th><th>-</th><th>-</th><th>-</th><th></th><th>-</th><th>f numbers. Replace</th><th></th><th>3</th></td<>	34				-	-	-		-	f numbers. Replace		3
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The output should be: OR OR Write a function countlines5() that reads the content of file poem.txt and count those lines which are having 5 or less words. If the contents of the poem.txt are as follows: If only desire of it Makes you quite mad enough Never to tire of it, Makes you hold all other things tawdry and cheap for it The output should be: Number of lines having words 5 or less are:3 Write the outputs of the SQL queries (i) to (iii) based on the relations TEACHER and DEPT given below: Table : TEACHER T_1D NAMME AKSHYA 39 102 AKSHYA 303 SAMAR 304 201207-02-31 305 VASH 3106 BHANU 45 20 30 2018-07-26 44000 M 30 MATHEMATICS 30 MATHEMATICS 30 MATHEMATICS 30 MATHEMATICS 30 MATHEMATICS 30 MATHEMATICS 30 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>rk. What i</td><td>s Ravi doing?</td><td></td><td></td></td<>									rk. What i	s Ravi doing?		
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Makes you quite mad enough Never to tire of it, Makes you hold all other things tawdry and cheap for it Image: Construct of the source of		lf th	ne co	ntents o	f the p	oem	.txt are	e as follows:				
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Write a function in python push(Arr), where Arr is a list of numbers. From this list 3	(iii	-		-		FROM	M TEAC	CHER T, DEPT	D WHER	E T.DEPT_ID=D.DEPT	[_ID	
						-						_
push all those numbers which are multiples of 4 into a stack implemented by using a	37			-	-	-						3
		push al	I tho	se numb	ers wh	ich a	re mul	tiples of 4 in	to a stack	implemented by us	ing a	

ii. Su w iii. W of iv. Su v. Th w ne	iggest an ide ired connect fices to effici iggest the pla ne organization hich is aroun etwork out o	ivity. will you s iently co acement on is plan d 20 km f LAN, M	suggest to be nnect all the of a Repeat nning to con away from t AN, or WAN	e placed computer in the nect its he curr will be	d/installed in each of th uters within these office he network with justifica s new office in Jabalpur rent location. Which typ	s? tion. itself, e of			
ii. Su w iii. W of iv. Su v. Th w	iggest an ide ired connect hich device v fices to effici iggest the pla ne organization hich is aroun	ivity. will you s iently co acement on is plau d 20 km	suggest to be nnect all the of a Repeat nning to con away from t	e placed computer in th nect its he curr	d/installed in each of th uters within these office he network with justifica s new office in Jabalpur rent location. Which typ	s? tion. itself,			
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ii. Su w iii. W of	iggest an ide ired connect hich device v fices to effici	ivity. will you s iently co	suggest to be nnect all the	e place compu	d/installed in each of th uters within these office	s?			
ii. Su w iii. W	iggest an ide ired connect hich device v	ivity. will you s	suggest to be	place	d/installed in each of th				
ii. Su W	iggest an ide ired connect	ivity.		-					
ii. Su	iggest an ide	=	for connect	ing the	ese blocks/Centers for a				
	-								
this organization with a suitable reason.									
i. Suggest the most suitable place (i.e., Block/a-) to install the server of									
		Confer		45	4				
		Accour	nts	30					
		HR IT		40 200					
				40	1				
In continuation of the above, the company experts have planned to install the following number of computers in each of their offices:									
	Accounts		Conference		60 m				
	IT		Accounts		115 m				
	IT		Conference		110 m				
	HR		Accounts		72 m				
	HR		Conference		95 m				
	HR	I	IT		45 m				
follows:	Place From		Place To		Distance				
	stances betw	veen the	ese offices a	s per i	network survey team a	ire as			
Confe	rence			AC	counts				
HR									
establish the net follows:	tworking bet	ween all	the four bra	nches.	A layout of the same is	as			
campus named HR, Conference, Accounts and IT .SuperTech Marketing Ltd. wants to									
of numbers. The function returns the value deleted from the stack. SuperTech Marketing Ltd. Is established in Jabalpur. It has four branches in its									
Write a function in python pop(Arr), where Arr is a stack implemented by using a list									
OR									
	list. Display the stack if it has at least one element, otherwise display appropriate error message.								

TID	NA	ME	AGE	DEPT	ID	D	J SALARY	GENDER		
101		SHYA	39	10		2018-08-01		F		
102		NDINI	38	20		2016-03-22		F		
103	SA	MAR	40	30		2017-12-12		M		
104	AA	ROHI	38	20		2015-11-07	45000	F		
105	AK	SHITA	42	30		2007-09-11	57000	F		
106	BH	IANU	45	20		2007-09-19	38000	Μ		
107		VANSH	41	10		2017-02-23		Μ		
108	YA		36	30		2018-07-26	44000	Μ		
Table: DEPT										
					LOC					
10		COMPUT	FER		MUM	IBAI				
20		PHYSICS			Raipu	ır				
30		MATHEN	ΛΑΤΙCS		Delhi					
i. To display all information from table TEACHER whose name starts with "S".										
ii. To display T_ID, NAME of all Female Teachers who belong to DEPT_ID 10.										
iii. To display T_ID,NAME and SALARY from table TEACHER and										
Corresponding DNAME from table DEPT for those teachers who are										
getting salary more than 45000.										
iv. To display all information of TEACHER table in descending order of										
column AGE.										
v.		-	-	ber of	teach	ers in each	Departme	nt(DEPT_ID) fro	om table	
		TEACHE								
	-			as som	e reco	rds of stru	ture			
[TOY_ID,TYPE,PRICE]										
(i)		rite a use d add to				ADD_DAT	() to input	data for a nev	v record	
(ii)	W	rite a fun	ction [DISPLA	Υ(ΤΥΡΙ	E) in Pvtho	n that wo	uld accept TYPI	E as	
(ii) Write a function DISPLAY(TYPE) in Python that would accept TYPE as parameter. The function will read contents of the file "TOYS.DAT" and										
calculate and display the sum of PRICE of all toys of that TYPE.										
OR										
A D:.						-	cturo.			
	-					ords of str	cture:			
[CUST_ID,NAME,ACCT_NO,BALANCE]										
-								e content of fil		
Writ	BANK.DAT. The function will display the total number of records in the file and also									
Writ BAN						ALANCE is				

*****End*****