KENDRIYA VIDYALAYA SANGATHAN DELHI REGION

1ST PRE-BOARD EXAMINATION 2020-21

COMPUTER SCIENCE NEW (Code: 083)

CLASS: XII

SET-1

Time: 3 hrs. M.M.: 70

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 4 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

PART-A Section-I

Select the most appropriate option out of the options given for each question. Attempt any 15 questions from question no. 1 to 21.

Q.	Optio	Questions Description	Marks
No.	n No.		Allotted
1.		Identify the invalid keyword in Python from the following:	1
		(a) True (b) None (c) Import (d) return	
2.		Write the output of the following python expression:	1
		print((4>5) and (2!=1) or (4<9))	
3.		Write the importance of passing file mode while declaring a file object in data file handling.	1
4.		Find the operator which cannot be used with a string in Python from the following:	1
5.		(a) + (b) in (c) * (d) // Write the output of the following python statements: Array=[8,5,3,2,1,1] print (Array[-1:-6:-1])	1
6.		Consider the tuple in python named DAYS=("SUN","MON","TUES").	1

	Identify the invalid statement(s) from the given below statements:	
	1. S=DAYS[1]	
	2. print(DAYS[2])	
	3. DAYS[0]="WED"	
	4. LIST=list(DAYS)	
7.	Declare a dictionary in python named QUAD having Keys(1,2,3,4) and	1
	Values("India","USA","Japan","Australia")	
8.	is a collection of similar modules or packages that are used to	1
	fulfills some functional requirement for a specific type of application.	
9.	Website incharge KABIR of a school is handling	1
	downloading/uploading various files on school website. Write the name	
	of the protocol which is being used in the above activity.	
10.	What is its use of Data encryption in a network communication?	1
11.	In SQL, write the name of the aggregate function which is used to	1
	calculate & display the average of numeric values in an attribute of a	
	relation.	
12.	Write an SQL query to display all the attributes of a relation named	1
	"TEST" along with their description.	
13.	What is the use of LIKE keyword in SQL?	1
14.	Which of the following is NOT a DML command?	1
	1. SELECT 2. DELETE 3. UPDATE 4. DROP	
15.	Give the full form of the following:	1
	(a) URL (b) TDMA	
16.	Identify the output of the following python statements if there is no	1
	error. Otherwise, identify the error(s):	
	Str1="Computer2020"	
	Str2=tuple(Str1[8:12])	
	Str3=list(Str2)	
	<pre>print(Str3,"#",len(Str3))</pre>	
17.	List one common property of a String and a Tuple.	1
18.	What is the purpose of following SQL command:	1
	SHOW DATABASES;	
19.	Differentiate between Bps & bps.	1
20.	Identify the error in the following SQL query which is expected to delete	1
	all rows of a table TEMP without deleting its structure and write the	
	correct one:	
	DELETE TABLE TEMP;	
21.	Identify the Guided and Un-Guided Transmission Media out of the	1
	following:	
	Satellite, Twisted Pair Cable, Optical Fiber, Infra-Red waves	

PART-A Section-II

Both the case study-based questions are compulsory. Attempt any 4 out of the 5 subparts from each question. Each question carries 1 mark.

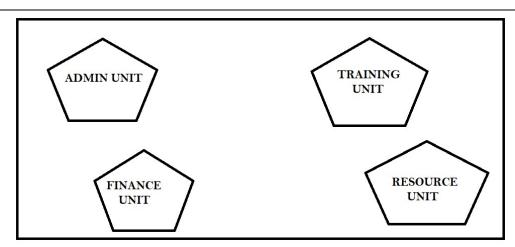
22.	A CD/DVD Shop named "NEW DIGITAL SHOP" stores various CDs & DVDs								
44.	of songs/albums/movies and use SQL to maintain its records. As a Database								
	Administrator, you have decided the following:								
	Aummstra	tor, you n	ave decided the following:						
	 Name of Database - CDSHOP 								
	 Name of Relation - LIBRARY 								
	Attributes are:- (a) CDNO - Numeric values (b) NAME - Character values of size (25) (c) QTY - Numeric values (d) PRICE - Decimal values								
		. ,				_			
			Table: LIBRAF	RY]			
		CDNO	NAME	QTY	PRICE				
		10001	Indian Patriotic	20	150]			
		10004	Hanuman Chalisa	15	80]			
		10005	Instrumental of Kishore	25	95]			
		10003	Songs of Diwali	18	125				
	10006 Devotional Krishna Songs 14 75								
	10002 Best Birthday Songs 17 NULL								
	Answer the following questions based on the above table LIBRARY:-								
(a)	Write the Degree & Cardinality of the relation LIBRARY. Identify the best attribute which may be declared as Primary key.								
(b)									
(c)	Insert the following record in the above relation:								
(4)	(10009, "Motivational Songs", 15, 70)								
(d)	Write an SQL query to display the minimum quantity.								
(e)	Database administrator wants to count the no. of CDs which does not have any								
23.	Price value. Write the query for the same. Abbisar is making a software on "Countries & their Capitals" in which various								
23.	Abhisar is making a software on "Countries & their Capitals" in which various records are to be stored/retrieved in CAPITAL.CSV data file. It consists some								
	records (Country & Capital). He has written the following code in python. As a								
	programmer, you have to help him to successfully execute the program.								
	, , ,								
	import # Statement-1								
	def AddNewRec(Country,Capital): # Fn. to add a new record in CSV file								
	f=open("CAPITAL.CSV",) # Statement-2								
		er=csv.wr	• •						
			w([Country,Capital])		_				
	f			# Sta	tement-3				
	d of C1 D	· • · · ·	# To	diam11	1	. CCV #1-			
		· ·		uispiay ai	ı recoras iron	n CSV ine			
	with) # Sta	$_{ m ttement-} A$				
			n NewReader:	, # 512	T				
	def ShowRec(): # Fn. to display all records from CSV file with open("CAPITAL.CSV","r") as NF: NewReader=csv(NF) # Statement-4								

	print(rec[0],rec[1])						
	AddNewRec("INDIA","NEW DELHI")						
	AddNewRec("CHINA","BEIJING")						
	ShowRec() # Statement-5						
	(a) Name the module to be imported in Statement-1.						
	(b) Write the file mode to be passed to add new record in Statement-2.	1					
	(c) Fill in the blank in Statement-3 to close the file.	1					
	(d) Fill in the blank in Statement-4 to read the data from a csv file.	1					
	(e) Write the output which will come after executing Statement-5.	1					
		1					
	PART-B	l					
	Section-I						
	Short answer questions of 2 marks each in which two question have internal options.						
24.	Write the output of the following python statements:	2					
	(a) print($2 + 3*4//2 - 4$)						
	(b) print $(10\%3 - 10//3)$						
25.	Differentiate between SMTP & POP3.	2					
	OR						
	List any two security measures to ensure network security.						
26.	Rohit has purchased a new Smart TV and wants to cast a video from his mobile to	2					
	his new Smart TV. Identify the type of network he is using and explain it.	_					
27.	What is the meaning of return value of a function? Give an example to illustrate	2					
	its meaning.	_					
	OR						
	Differentiate between a positional and default arguments with the help of an						
20	example.	2					
28.	Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.	2					
	Y=integer(input("Enter 1 or 10"))						
	if Y==10						
	for Y in range(1,11):						
	print(Y)						
	else:						
	for m in range(5,0,-1):						
	print(thank you)						
29.	What possible outputs(s) are expected to be displayed on screen at the time of	2					
•	execution of the program from the following code? Also specify the maximum	_					
	values that can be assigned to each of the variables BEG and END.						

```
import random
                    HEIGHTS=[10,20,30,40,50]
                    BEG=random.randint(0,2)
                    END=random.randint(2,4)
                    for X in range(BEG, END):
                         print (HEIGHTS[X], end="@")
        (a) 30@
        (b) 10@20@30@40@50@
        (c) 20@30
        (d) 40@30@
30.
     What do you mean by domain of an attribute in DBMS? Explain with an example.
                                                                           2
31.
     Differentiate between fetchone() and fetchmany() methods with suitable
     examples.
32.
     What is the difference between CHAR & VARCHAR data types in SQL? Give an
                                                                           2
     example for each.
     Find and write the output of the following Python code:
33.
                                                                           2
                 def Convert (Old):
                      l=len(Old)
                      New=""
                      for i in range(0,1):
                           if Old[i].isupper():
                                New=New+Old[i].lower()
                           elif Old[i].islower():
                                New=New+Old[i].upper()
                           elif Old[i].isdigit():
                                New=New+"*"
                           else:
                                New=New+"%"
                      return New
                 Older="InDIa@2020"
                 Newer=Convert(Older)
                 print("New string is : ",Newer)
                                     PART-B
                                     Section-II
        Short answer questions of 3 marks each in which two question have internal options.
34.
     Write a function in python named SwapHalfList(Array), which accepts a list Array
                                                                           3
     of numbers and swaps the elements of 1st Half of the list with the 2nd Half of the
     list ONLY if the sum of 1st Half is greater than 2nd Half of the list.
```

	Sample Input Data of the list						
	Array= [100, 200, 300, 40, 50, 60],						
	Output Arr = [40, 50, 60, 100, 200, 300]						
35.	Write a method/function COUNTLINES_ET() in python to read lines from a text file REPORT.TXT, and COUNT those lines which are starting either with 'E' and starting with 'T' respectively. And display the Total count separately. For example: if REPORT.TXT consists of "ENTRY LEVEL OF PROGRAMMING CAN BE LEARNED FROM PYTHON. ALSO, IT IS VERY FLEXIBLE LANGUGAE. THIS WILL BE USEFUL FOR VARIETY OF USERS." Then, Output will be:	3					
	No. of Lines with E: 1						
	No. of Lines with T: 1						
	OR						
	Write a method/function SHOW_TODO() in python to read contents from a text file ABC.TXT and display those lines which have occurrence of the word "TO" or "DO".						
	For example: If the content of the file is "THIS IS IMPORTANT TO NOTE THAT SUCCESS IS THE RESULT OF HARD WORK. WE ALL ARE EXPECTED TO DO HARD WORK. AFTER ALL EXPERIENCE COMES FROM HARDWORK."						
	The method/function should display: • THIS IS IMPORTANT TO NOTE THAT SUCCESS IS THE RESULT						
	OF HARD WORK. • WE ALL ARE EXPECTED TO DO HARD WORK.						
36.	Write the Outputs of the SQL queries (i) to (iii) based on the given below tables:						

TID TNAME CITY HIREDATE SALARY 101 SUNAINA MUMBAI 1998-10-15 90000 102 ANAMIKA DELHI 1994-12-24 80000 103 DEEPTI CHANDIGARG 2001-12-21 82000 104 MEENAKSHI DELHI 2002-12-25 78000 105 RICHA MUMBAI 1996-01-12 95000 106 MANIPRABHA CHENNAI 2001-12-12 69000		TRAINER									
101 SUNAINA MUMBAI 1998-10-15 90000 102 ANAMIKA DELHI 1994-12-24 80000 103 DEEPTI CHANDIGARG 2001-12-21 82000 104 MEENAKSHI DELHI 2002-12-25 78000 105 RICHA MUMBAI 1996-01-12 95000 106 MANIPRABHA CHENNAI 2001-12-12 69000											
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105							EPTI	DE	103		
COURSE CID CNAME FEES STARTDATE TID C201 AGDCA 12000 2018-07-02 101 C202 ADCA 15000 2018-07-15 103 C203 DCA 10000 2018-09-15 104 C204 DDTP 9000 2018-09-15 104 C205 DHN 20000 2018-08-01 101 C206 O LEVEL 18000 2018-07-25 105 (i) SELECT DISTINCT(CITY) FROM TRAINER WHERE SALARY>80000; (ii) SELECT TID, COUNT(*), MAX(FEES) FROM COURSE GROUP BY TID HAVING COUNT(*)>1; (iii) SELECT T.TNAME, C.CNAME FROM TRAINER T, COURSE C WHERE T.TID=C.TID AND T.FEES<10000; 37. Write a function in python named PUSH(STACK, SET) where STACK is list of some numbers forming a stack and SET is a list of some numbers. The function will push all the EVEN elements from the SET into a STACK implemented by using a list. Display the stack after push operation.			THE PROPERTY OF THE PROPERTY O					ME	104		
COURSE CID CNAME FEES STARTDATE TID C201 AGDCA 12000 2018-07-02 101 C202 ADCA 15000 2018-07-15 103 C203 DCA 10000 2018-10-01 102 C204 DDTP 9000 2018-09-15 104 C205 DHN 20000 2018-08-01 101 C206 O LEVEL 18000 2018-07-25 105 (i) SELECT DISTINCT(CITY) FROM TRAINER WHERE SALARY>80000; (ii) SELECT TID, COUNT(*), MAX(FEES) FROM COURSE GROUP BY TID HAVING COUNT(*)>1; (iii) SELECT T.TNAME, C.CNAME FROM TRAINER T, COURSE C WHERE T.TID=C.TID AND T.FEES<10000; 37. Write a function in python named PUSH(STACK, SET) where STACK is list of some numbers forming a stack and SET is a list of some numbers. The function will push all the EVEN elements from the SET into a STACK implemented by using a list. Display the stack after push operation.			105 RICHA MUMBAI 1996-01-12 95000								
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(i) SELECT DISTINCT(CITY) FROM TRAINER WHERE SALARY>80000; (ii) SELECT TID, COUNT(*), MAX(FEES) FROM COURSE GROUP BY TID HAVING COUNT(*)>1; (iii) SELECT T.TNAME, C.CNAME FROM TRAINER T, COURSE C WHERE T.TID=C.TID AND T.FEES<10000; Write a function in python named PUSH(STACK, SET) where STACK is list of some numbers forming a stack and SET is a list of some numbers. The function will push all the EVEN elements from the SET into a STACK implemented by using a list. Display the stack after push operation.			5	5 103	2018-0	15000	ADCA	2	C202		
(i) SELECT DISTINCT(CITY) FROM TRAINER WHERE SALARY>80000; (ii) SELECT TID, COUNT(*), MAX(FEES) FROM COURSE GROUP BY TID HAVING COUNT(*)>1; (iii) SELECT T.TNAME, C.CNAME FROM TRAINER T, COURSE C WHERE T.TID=C.TID AND T.FEES<10000; 37. Write a function in python named PUSH(STACK, SET) where STACK is list of some numbers forming a stack and SET is a list of some numbers. The function will push all the EVEN elements from the SET into a STACK implemented by using a list. Display the stack after push operation.			2	1 102	2018-10	10000	DCA	3	C203		
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 (i) SELECT DISTINCT(CITY) FROM TRAINER WHERE SALARY>80000; (ii) SELECT TID, COUNT(*), MAX(FEES) FROM COURSE GROUP BY TID HAVING COUNT(*)>1; (iii) SELECT T.TNAME, C.CNAME FROM TRAINER T, COURSE C WHERE T.TID=C.TID AND T.FEES<10000; 37. Write a function in python named PUSH(STACK, SET) where STACK is list of some numbers forming a stack and SET is a list of some numbers. The function will push all the EVEN elements from the SET into a STACK implemented by using a list. Display the stack after push operation. 				1 10	2018-0	20000	DHN	5	C205		
 (ii) SELECT TID, COUNT(*), MAX(FEES) FROM COURSE GROUP BY TID HAVING COUNT(*)>1; (iii) SELECT T.TNAME, C.CNAME FROM TRAINER T, COURSE C WHERE T.TID=C.TID AND T.FEES<10000; 37. Write a function in python named PUSH(STACK, SET) where STACK is list of some numbers forming a stack and SET is a list of some numbers. The function will push all the EVEN elements from the SET into a STACK implemented by using a list. Display the stack after push operation. 			;	5 105	2018-0	18000	O LEVEL	5	C206		
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some numbers forming a stack and SET is a list of some numbers. The function will push all the EVEN elements from the SET into a STACK implemented by using a list. Display the stack after push operation.	1	HERE 1	, I							(iii)	
OP	3	some numbers forming a stack and SET is a list of some numbers. The function will push all the EVEN elements from the SET into a STACK implemented by							37.		
UK											
Write a function in python named POP(STACK) where STACK is a stack implemented by a list of numbers. The function will display the popped element after function call.											
PART-B											
Section-III					ion-III	Sect					
Short answer questions of 5 marks each in which ONE question have internal options.		l options.	have interna	E question	which (arks each ir	estions of 5 m	er qu	t answe	Shor	
	5		at Nagpu	w campus	etup its	nning to so	NGO is plan	' an	Daan"	"VidyaI	38.



→ Distances between above UNITs are given here s under:

UNIT-1	UNIT-2	DISTANCE(In mtrs.)
ADMIN	TRAINING	65
ADMIN	RESOURCE	120
ADMIN	FINANCE	100
FINANCE	TRAINING	60
FINANCE	RESOURCE	40
TRAINING	RESOURCE	50

→ No. of Computers in various UNITs are:

UNIT	NO. OF COMPUTERS
ADMIN	150
FINANCE	25
TRAINING	90
RESOURCE	75

- (i) Suggest an ideal cable layout for connecting the above UNITs.
- (ii) Suggest the most suitable place i.e. UNIT to install the server for the above NGO.
- (iii) Which network device is used to connect the computers in all UNITs?
- (iv) Suggest the placement of Repeater in the UNITs of above network.

(a) Twisted Pair cable

- (v) NGO is planning to connect its Regional Office at Kota, Rajasthan. Which out of the following wired communication, will you suggest for a very high-speed connectivity?
- 39. Write SQL commands for the following queries (i) to (v) based on the relations TRAINER & COURSE given below:

(b) Ethernet cable

(c) Optical Fiber

TRAINER										
	TID TNAME CITY HIREDATE SALARY									
	101 SUNAINA MUMBAI 1998						_	90000		
		102	ANAMIKA	DELHI		1994-12-		80000		
		103	DEEPTI	CHANDIC	CHANDIGARG		21	82000		
		104	MEENAKSHI	DELHI		2002-12-		78000		
		105	RICHA	MUMBAI		1996-01-	12	95000		
		106	MANIPRABHA	CHENNA	I	2001-12-	12	69000		
			2001 12 12 0,000							
	COURSE									
	CID CNAME FEES STARTDATE TID									
		C201 AGDCA 12000 2018-07-02 101								
		C202	ADCA	15000	2018-0		103			
		C203	DCA	10000	2018-1		102			
		C204	DDTP	9000	2018-0		104			
		C205	DHN	20000	2018-0		101			
		C206	O LEVEL	18000	2018-0	7-25	105			
(i)	Display all details of Trainers who are living in city CHENNAI.									
(ii)	Display the Trainer Name, City & Salary in descending order of their Hiredate.									
(iii)	Count & Display the number of Trainers in each city.									
(iv)	Display the Course details which have Fees more than 12000 and name ends with									
	'A'.									
(v)	Display the Trainer Name & Course Name from both tables where Course Fees									
(.)	is less than 10000.									
40.	A binary file named "EMP.dat" has some records of the structure 5								5	
10.	[EmpNo, EName, Post, Salary]							3		
	(a) Write a user-defined function named NewEmp() to input the details of a									
	new employee from the user and store it in EMP.dat.									
	(b) Write a user-defined function named <u>SumSalary(Post)</u> that will accept an									
	argument the post of employees & read the contents of EMP.dat and									
	calculate the SUM of salary of all employees of that Post.									
	OR									
	OR									
	A binar	v file n	amed "TEST.da	t" has some	e record	s of the s	truct	11 r e		
	11 Dillal	•	TestId, Subject, 1				uct	ui C		
	Write	-	ion in Python	•		-	ub)	that will acc	cent a	
			argument and							
		e & a	isplay the Avera	ge of the	scorear	viatks of	ше	passeu subje	ect on	
	screen.									
