Kendriya Vidyalaya Sangathan, Tinsukia Region Pre-Board – II Examination 2020-21 Computer Science (083) (Theory) Class: XII <u>Marking Scheme</u>

	PART-A						
Selec	Section-I ct the most appropriate option out of the options given for each question. Attempt any 15 from question no 1 to 21 (award 1 mark for each correct answer)	questions					
Q.No	Q.No						
1.	Find the invalid identifier from the following						
	a) def b) For c) bonus d)First Name	1					
	a) def	1					
2							
2.	Given the lists $Lst=[C, O, M, P, O, T, E, R]$, write the output of:						
	print(Lst[3:6])	1					
	PUT						
3.	Function of writer object is used to send data to csv file to store.	1					
4	writerow() What will be the output of following program:						
	a = nello b = 'virat'						
	for i in range(len(a)):						
	print(a[i],b[i])	1					
	h v						
	ei Ir						
	ot						
5.	Write the output of the following code segment:						
	colors=["violet", "indigo", "blue", "green", "yellow", "orange", "red"]						
	del colors[4]						
	colors.remove("blue")	1					
	print(colors)						
	['violet', 'indigo', 'green', 'red']						
6.	Which statement is correct for dictionary?						
	(i) A dictionary is a ordered set of Key, value pair (ii) each of the keys within a dictionary must be unique						
	(ii) each of the values in the dictionary must be unique	1					
	(iv) values in the dictionary are immutable	-					
L	(ii) each of the keys within a dictionary must be unique						
7.	Identify the valid declaration of						
	Rec: Rec=(1,"Vikrant",50000)	1					
	(i)List (ii)Tuple (iii)String (iv)Dictionary						

	(ii)Tuple	
8.	Find and write the output of the following python code:	
	def myfunc(a):	
	a = a + 2	
	a = a * 2	
	return a	1
	print(myfunc(2))	
	8	
0	Name the protocol that is used to transfer file from one computer to another	
	Name the protocol that is used to transfer the nom one computer to another.	1
10	FTP	
10.	Raj is a social worker, one day he noticed someone has created his fake ID on social media	
	platforms for fund raising. What kind of Cybercrime Raj is facing?	1
	Identity Theft	
11.	Which command is used to change the existing information of table?	1
	UPDATE	1
12.	Expand RDBMS	
	Polotional Database Management System	1
13.	Write an Aggregate function that is used in MySQL to find No. of Rows in the database	
	Table	1
	Count (*)	
14.	For each attribute of a relation, there is a set of permitted values, called the of that	
	attribute.	
	a. Dictionaries	
	b. Domain	1
	c. Directory d. Relation	
15	(b) Domain	
15.	Name the Transmission media which consists of an inner copper core and a second conducting outer sheath.	
		1
16	Co-axial Identify the valid statement for list $I = [1, 2, "a"]$.	
10.	$\frac{1}{1} = \frac{1}{1} = \frac{1}$	
	b. L.del(2)	
	c. del $L[2]$	1
	d. del L["a"]	
	(c) del L[2]	
17.	Find and write the output of the following python code:	
	x = "Python"	1
	print(x[::-1]) $print(x)$	
		l

	nohtyP							
	Python							
18.	In SQL, write the	query to displ	ay the list of datab	bases stored in MySQL.		1		
	show databases							
19.	Expand GPS	- C-ustom				1		
20	Which is not a cons	ig System	2					
20.			•					
	a. Unique							
	b. Distinct					1		
	c. Primary ke	У				1		
	d. Check							
	b) Distinct							
21.	Define Bandwidth?)						
	A band of fraguer	aiog ugod for	conding alastron	ia cianala				
	or	icles used for	sename electron	ic signals		1		
	The difference bet	ween lowest	frequency & high	est frequency of trans	mission	-		
	or							
	any other correct	response						
Both f	ha Casa study basa	Sec a questions p	ction-11	ttempt onv 1 sub porte	from each question	Fach		
Dom	the Case study base	u questions a	question carrie	s 1 mark	, nom each question			
22.	Observe the follow	ing table and	answer the question	on (a) to (e) (Any 04)				
			TABLE: VISITO)R				
		VisitorID	VisitorName	ContactNumber				
		V001	ANAND	9898989898				
		V002	AMIT	9797979797				
		V003	SHYAM	9696969696		1		
		V004	MOHAN	9595959595				
	Write the name of 1 keys?	nost appropri	ate columns which	a can be considered as C	andidate			
	(a) VIsitorID and	ContactNum	ber					
	Out of selected can Key? (b) VisitorID	didate keys, v	vhich one will be t	he best to choose as Prin	nary	1		
	What is the degree	and cardinalit	y of the table?					
	(c) Degree= 3					1		
	Cardinality=4							
	(d) Insert the follo	wing data into	o the attributes Vis	sitorID, VisitorName an	d ContactNumber			
	respectively in the	given table V	ISITOR.			1		
	VisitorID = "V004	", VisitorNan	ne= "VISHESH" a	and ContactNumber= 99	007607474	1		
	insert into VISIT	OR values ("	V004", "VISHES	5H",9907607474)				
	(e) Remove th	e table VISIT	OR from the datab	ase HOTEL Which cou	nmand will be used			
	from the fo	llowing:			minuna win ne usea			
	a) D	ELETE FRO	M VISITOR;			1		
	b) D	ROP TABLE	VISITOR;					
	c) D	ROP DATAE	BASE HOTEL;					

	d) DELETE VISITOR FROM HOTEL;	
	(b) DROP TABLE VISITOR;	
23	Priti of class 12 is writing a program to create a CSV file "emp.csv". She has written the following code to read the content of file emp.csv and display the employee record whose name begins from "S" also show no. of employee with first letter "S" out of total record. As a programmer, help her to successfully execute the given task.	
	Consider the following CSV file (emp.csv):	
	1.Peter.35	
	00	
	2,Scott,40	
	00 3 Harry 5	
	000	
	4,Michael	
	,2500	
	5,Sam,42	1
	import # Line 1	1
	def SNAMES():	
	with open() as csvfile: # Line 2	
	myreader = csv(csvfile, delimiter=',') # Line 3	
	count s=0	
	for row in myreader:	
	if row[1][0].lower()=='s':	
	print(row[0],',',row[1],',',row[2])	
	$count_s += 1$	
	print("Number of 'S' names are ".count s."/".count rec)	
	Name the module he should import in Line 1	
	(a) Csv	
	In which mode, Priti should open the file to print data.	1
	(b) read mode	
	Fill in the blank in Line 2 to open the file.	1
	Fill in the blank in Line3 to read the data from a csy file	
	(d) reader	1
	Write the output he will obtain while executing the above program.	
	(e) 2,Scott,4000 5 Sam 4200	1
	S,San,4200 Number of "S" names are 2/5	
	PART-B	
	Section-I	
24.	If given A=2,B=1,C=3, What will be the output of following expressions:	
	(i) $\operatorname{print}((A>B) \text{ and } (B>C) \text{ or}(C>A))$	
	(ii) print($A^{**}B^{**}C$)	2
	(i) True	
	(ii) 2	
25	What is Trojan? Any two type of activities performed by Trojan	2
		4

			1					
	A Trojan horse or Trojan is a type of n	nalware that is often disguised as legitimate						
	software. Trojans can be employed by cyber-thieves and hackers trying to gain access to							
	users' systems. activities performed by	Trojan can be:						
	Deleting data							
Blocking data								
	Modifying data Conving data							
	Disrupting the performance of compute	ers or computer networks						
	OR What is the difference between HTML and XML?							
	HTML	XML						
	HTML is used to display data and	XML is a software and hardware independent						
	focuses on how data looks.	tool used to transport and store data. It focuses						
		on what data is.						
	HTML is a markup language itself.	XML provides a framework to define markup						
		languages.						
	HTML is not case sensitive.	XML is case sensitive.						
	HTML is a presentation language.	XML is neither a presentation language nor a						
	UTMI has its own prodofined to as	programming language.						
	HINL has its own predefined tags.	You can define tags according to your need.						
	In HTML, it is not necessary to use a	XML makes it mandatory to use a closing tag.						
	closing tag.							
	HTML is static because it is used to	XML is dynamic because it is used to transport						
	display data.	data.						
	Expand the following terms:							
26	a. HTTP-Hypertext transfer Protocol							
	b. POP3-Post office protocol ver. III							
	c. VOIP- Voice over internet Protocol		2					
	d. TCP- Transmission control protocol							
27	What do you understand the default argur	nent in function? Which function parameter must be						
27	given default argument if it is used? Give	example of function header to illustrate default						
	argument.							
	Default argument in function- value pr	ovided in the formal arguments in the definition						
	header of a function is called as default	argument in function. They should always be						
	def func(a, b-2, c-5), # definition of fu	sequence. For example:						
	here b and c are default arguments							
		OR						
			2					
	Ravi a python programmer is working on function with name CalculateInterest(), he	a project, for some requirement, he has to define a e defined it as:						
	def CalculateInterest (Principle, Rate=.0	6,Time): # code						
	But this code is not working, Can you help Ravi to identify the error in the above function and what is the solution.							
28	In the function CalculateInterest (Princ parameters from right to left hence ei value or default value of Rate should be	tipal, Rate=.06,Time) parameters should be default ther Time should be provided with some default e removed						
28	Rewrite the following Python program	atter removing all the syntactical errors (if any),	2					

	undernning each correctly	on:							
1	def <u>checkval</u> : # checkval()								
	x = input("Enter a nun	<u>nber'')</u> # i	int(input("Enter	· a					
	number"))								
	if $x \% 2 = 0$:								
	print (x, "is even")								
	<u>elseif</u> x<0:								
	# ellj								
	print (x, should be nositive'')								
	else.								
	# else:								
	print (x, "is odd")								
29	What possible outputs(s) ar	e expected	to be displayed o	on screen at t	ne time of execution of the				
	program from the followin	g code? Als	so specify the ma	aximum valu	es that can be assigned to				
	each of the variables FROM	A and TO.							
	import random AR=[20,30,	40,50,60,70)]						
	FROM=random.randint(1,3	B) TO=rando	om.randint(2,4)						
	for K in range(FROM, TO):					2			
	print (AR[K],end=" $\#$ ")	50#	(:::)50#60#70#	() 40#50	47 0.4	2			
	(1)10#40#70# (11)50#40#	50#	(111)50#60#70#	(10)40#50	+/0#				
	Maximum value of FROM	A = 3							
	Maximum value of TO =	4							
	(ii) 30#40#50#								
30	Define Primary Key of a re	lation in SC	2L. Give an Exai	mple using a	dummy table.				
	Primary Kay- and ar mar	o ottributo	of a relation use	ad to unique	ly identify each and every				
	Primary Key- one or mor tuple in the relation. For F	e attribute Example : It	of a relation use n the below Tab	ed to unique le Student, l	ly identify each and every RollNo can be the Primary				
	Primary Key- one or mor tuple in the relation. For F Key. Or any other suitabl	e attribute Example : I le example	of a relation use n the below Tab	ed to unique le Student, l	ly identify each and every RollNo can be the Primary	2			
	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitabl	e attribute Example : In e example RollNo	of a relation use n the below Tab Name	ed to unique le Student, l Marks	ly identify each and every RollNo can be the Primary	2			
	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitabl	e attribute Example : In e example RollNo 1	of a relation use n the below Tab Name Paridhi	ed to unique le Student, l Marks 90	ly identify each and every RollNo can be the Primary	2			
	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitabl	e attribute Example : In e example RollNo 1 2	of a relation use n the below Tab Name Paridhi Unnati	ed to unique le Student, l Marks 90 85	ly identify each and every RollNo can be the Primary	2			
31	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitabl	e attribute Example : In e example RollNo 1 2 hon code is	of a relation use n the below Tab Name Paridhi Unnati written to access	ed to unique le Student, l Marks 90 85 the record o	ly identify each and every RollNo can be the Primary f CODE passed to function:	2			
31	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitabl Consider the following Pyth Complete the missing state	e attribute Example : In e example RollNo 1 2 hon code is ments:	of a relation use n the below Tab Name Paridhi Unnati written to access	ed to unique le Student, l Marks 90 85 the record o	ly identify each and every RollNo can be the Primary	2			
31	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno):	e attribute Example : In e example RollNo 1 2 hon code is ments:	of a relation use n the below Tab Name Paridhi Unnati written to access	ed to unique le Student, l Marks 90 85 the record o	ly identify each and every RollNo can be the Primary	2			
31	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or guery="select	e attribute Example : In e example RollNo 1 2 hon code is ments: connection an	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created	ed to unique le Student, l <u>Marks</u> 90 85 5 the record o	ly identify each and every RollNo can be the Primary f CODE passed to function:	2			
31	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(qu	e attribute Example : In e example RollNo 1 2 hon code is ments: connection ar * from erv)	of a relation use n the below Tab Name Paridhi Unnati written to access nd cursor is created emp	ed to unique le Student, l Marks 90 85 the record o	ly identify each and every RollNo can be the Primary f CODE passed to function:	2			
31	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, of query="select mycursor.execute(qu results = mycursor.	e attribute Example : In e example RollNo 1 2 hon code is ments: connection ar * from ery)	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp	ed to unique le Student, l 90 85 the record o	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno)	2			
31	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(qu results = mycursor print(results)	e attribute Example : In e example RollNo 1 2 hon code is ments: connection an * from ery)	of a relation use n the below Tab Name Paridhi Unnati written to access nd cursor is created emp	ed to unique le Student, l Marks 90 85 the record o	ly identify each and every RollNo can be the Primary f CODE passed to function:	2			
31	Primary Key- one or mor tuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, of query="select mycursor.execute(qu results = mycursor print(results)	e attribute Example : In e example RollNo 1 2 hon code is ments: connection ar * from ery)	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp	ed to unique le Student, l 90 85 the record o	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno)	2			
31	Primary Key- one or mortuple in the relation. For Here Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(query="select") print(results) { } and fetchone()	e attribute Example : In e example RollNo 1 2 hon code is ments: connection an * from ery)	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp	ed to unique le Student, l Marks 90 85 the record o	ly identify each and every RollNo can be the Primary f CODE passed to function: npno='.format(eno)	2			
31	Primary Key- one or mortuple in the relation. For Here Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(queresults = mycursor print(results) { } and fetchone()	e attribute Example : In e example RollNo 1 2 hon code is ments: connection ar * from ery) mguage. Co	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp	ed to unique le Student, l 90 85 the record o where en ands used to	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno) modify the metadata of a	2			
31	Primary Key- one or mortuple in the relation. For Here tuple in the relation. For Here Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(query="select") print(results) { } and fetchone() DDL- Data definition land table. For Example- create	e attribute Cxample : In e example RollNo 1 2 hon code is ments: connection an * from ery) nguage. Co ate table, al	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp	ed to unique le Student, l 90 85 the record o where ea ands used to table	ly identify each and every RollNo can be the Primary f CODE passed to function: npno=".format(eno) modify the metadata of a	2 2 2 2			
31	Primary Key- one or mortuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(query="select") print(results) { } and fetchone() DDL- Data definition lantable. For Example- created DML-Data manipulation	e attribute Example : In e example RollNo 1 2 hon code is ments: connection ar * from ery) 	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp msists of comma lter table, drop	ed to unique le Student, l 90 85 the record o where e ands used to table mands used	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno) modify the metadata of a to modify the data of a	2 2 2 2			
31	Primary Key- one or mortuple in the relation. For E Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(query="select") print(results) { } and fetchone() DDL- Data definition lantable. For Example- create DML-Data manipulation table. For Example- inset	e attribute Cxample : In e example RollNo 1 2 hon code is ments: connection an * from ery) mguage. Co ate table, al n language. rt, delete, u	of a relation use n the below Tab <u>Name</u> Paridhi Unnati written to access ad cursor is created emp sists of comma lter table, drop to Consist of com	ed to unique le Student, l 90 85 the record o where en ands used to table umands used	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno) modify the metadata of a to modify the data of a	2 2 2 2			
31 32 33	Primary Key- one or mortuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(query="select") print(results) { } and fetchone() DDL- Data definition lantable. For Example- created DML-Data manipulation table. For Example- inseted What will be the output of the table.	e attribute Example : In e example RollNo 1 2 hon code is ments: connection art * from ery) mguage. Co ate table, al n language. rt, delete, u following p	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp s nsists of comma lter table, drop Consist of com update rogram:	ed to unique le Student, l 90 85 the record o where e ands used to table mands used	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno) modify the metadata of a to modify the data of a	2 2 2 2			
31 32 33	Primary Key- one or mortuple in the relation. For E Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(query="select") print(results) { } and fetchone() DDL- Data definition lantable. For Example- create DML-Data manipulation table. For Example- insete What will be the output of the s="welcome2ky"	e attribute Cxample : In e example RollNo 1 2 hon code is ments: connection an * from ery) mguage. Co ate table, al n language. pfollowing p	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp sists of comma lter table, drop to Consist of com update rogram:	ed to unique le Student, l 90 85 the record o where en ands used to table umands used	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno) modify the metadata of a to modify the data of a	2 2 2 2			
31 32 33	Primary Key- one or mortuple in the relation. For Here Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(query="select") print(results) { } and fetchone() DDL- Data definition lantable. For Example- creates DML-Data manipulation table. For Example- inset What will be the output of the s="welcome2kv" n = len(s)	e attribute Cxample : In e example RollNo 1 2 hon code is ments: connection an * from ery) mguage. Co ate table, al n language. pfollowing p	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp mainter table, drop to Consist of comma update rogram:	ed to unique le Student, l 90 85 the record o where en ands used to table umands used	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno) modify the metadata of a to modify the data of a	2 2 2 2 2 2			
31 32 33	Primary Key- one or mortuple in the relation. For H Key. Or any other suitable Consider the following Pyth Complete the missing state def Search(eno): #Assume basic setup import, or query="select mycursor.execute(query="select") print(results) { } and fetchone() DDL- Data definition lantable. For Example- create DML-Data manipulation table. For Example- inset What will be the output of the s="welcome2kv" n = len(s) m="""	e attribute Example : In e example RollNo 1 2 hon code is ments: connection an * from ery) nguage. Co ate table, al n language. pfollowing p	of a relation use n the below Tab Name Paridhi Unnati written to access ad cursor is created emp state nsists of comma later table, drop to Consist of com update rogram:	ed to unique le Student, l 90 85 the record o where en ands used to table umands used	ly identify each and every RollNo can be the Primary f CODE passed to function: mpno=".format(eno) modify the metadata of a to modify the data of a	2 2 2 2 2			

	if $(s[i] \ge a' and s[i] \le m'$:	
	m = m + s[i].upper()	
	elif (s[i] \geq 'n' and s[i] \leq 'z'):	
	m = m + s[i-1]	
	elif (s[i].isupper()):	
	m = m + s[i].lower()	
	else:	
	m = m + #	
	nrint(m)	
	TEL COME #KI	
-	VELUCIVIE#KK	
3/	Write code in Python to calculate and display the frequency of each item in a list	
54	write code in 1 ython to calculate and display the nequency of each item in a list.	
	L=[10.12.14.17.10.12.15.24.27	
	.24]	
	L1=[]	
	$L_{2=1}$	
	for i in L:	
	if i not in L2:	
	c=L _c count(i)	3
	L1.append(c)	-
	L2.append(i)	
	print('Item'.'\t\t'.'frequency')	
	for 1 in range(len(L1)):	
	print(L2[i],'\t \t', L1[i])	
	or any other code with correct logic and syntax	
35	Write a function COUNT_AND() in Python to read the text file "STORY.TXT" and count	
	the number of times "AND" occurs in the file. (include AND/and/And in the counting)	
	der COUNI_AND():	
	COUNT=0 file=onon((STODV TVT! 'n')	
	line – file read()	
	me = me.reau() word = line split()	
	for win word:	
	if w in ['AND'.'and'.'And'].	
	count=count+1	
	file.close()	
	print(count)	3
	$(\frac{1}{2} Mark for opening the file)$	
	(1/2 Mark for reading word)	
	(¹ / ₂ Mark for checking condition)	
	(¹ / ₂ Mark for printing word)	
	OR	
	Write a function DISPLAYWORDS() in python to display the count of words starting with	
	"t" or "T" in a text file 'STORY.TXT'.	
	def DISPLAYWORDS():	
	Page 7 of 11	

line word for y	= file.read() d = line.split() w in word:		,						
if	if w[0]=="T" or w[0]=="t":								
file.	count=count+ close()	-1							
prii	nt(count)								
(½ Mar)	k for opening th	e file)							
(¹ /2 Marl	k for reading wo	ord) ordition	\						
(1/2 Mar)	k jor cnecking c k for printing w	onation, ord))						
Write a	output for SOL	oueries (i) to (iii), w	hich are base	d on the tal	ole: SCHOOL an	d		
ADMI	N given below:	1	, (,,						
			TABL	E: SCHOOI					
CODE	TEACHERNAM	E SU	BJECT	DOJ	PERIODS	EXPERIENCE]		
1001	RAVI SHANKAR	EN	GLISH	12/03/2000	24	10			
1009	PRIYA RAI	PH	YSICS	03/09/1998	26	12			
1203	LISA ANAND	EN	GLISH	09/04/2000	27	5	_		
1045	YASHRAJ	MA	ATHS	24/08/2000	24	15	_		
1123	GANAN	PH	YSICS	16/07/1999	28	3	-		
1167				19/10/1999	27	5	-		
		CODE	GENDE	DESIGN	ATION				
		1001		R		_			
		1001	FEMAL	E COORD	INCIPAL INATOR	-			
		1203	FEMAL	E COORD	INATOR	-			
		1045	MALE	HOD					
		1123	MALE	SENIOR	TEACHER	2			
		1215	MALE	HOD	TEACHER				
i.	SELECT SUM	PERIOE	DS). SUBJI	ECT FROM S	SCHOOL G	ROUP BY SUBJ	ECT:		
ii	SFLECT TEAC	` 'HFRNA'	MF GENI	DFR FROM	SCHOOL	ADMIN WHERE	,		
	DESIGNATION	I = COC		OP' AND SC			DE		
						DE-ADMIN.CO	DE,		
SELEC	I COUNT (DIS	I III CI S	UDJECT)	FROM SCIN	JOL,				
i) ENGI PHYS MATI CHEM	LISH 51 SICS 76 HS 24 MISTRY 27								
ii) PRIY	A RAI FEI	MALE							
		.							

37	Write a program to perform push operations on a Stack containing Student details as given in the following definition of student node: RNo integer Name String Age integer def isEmpty(stk): if stk == []: return True else: return False def stk_push(stk, item): # Write the code to push student details using stack. def stkpush(stk, item): stk.append(item) top=len(stk)-1	
	OR	
	Write a program to perform pop operations on a Stack containing Student details as given in the	
	following definition of student node:	
	RNo integer	3
	Name String	
	<pre>def isEmpty(stk): if stk == []: return True else: return False def stk_pop(stk): # Write the code to pop a student using stack. def stkpop(stk): if isEmpty(): print("Underflow") else: item=stk.pop() print(item) if len(stk)==0: top=None else: top=len(stk)-1</pre>	
	Section-III	ı
38	 (a) Any efficient layout with shortest Wire length (b) Between 3 and 4 due to larger distance (c) (i) Wireless (ii) WAN (iv) Building-3 due to maximum no of Computers (v) Co- axial cable or fiber optics 	5

(1 mai	rk for each corro	ect answ	er)					
Write	SQL queries for	(i) to (v)), wh	ich are ba	used on the t	able: SCHO	OOL and ADMIN	
				TABLE	: SCHOOI			
CODE	TEACHERNAM	ME	SUBJE	ECT	DOJ	PERIODS	EXPERIENCE	
1001	RAVI SHANKA	AR E	ENGL	ISH	12/03/2000	24	10	
1009	PRIYA RAI	F	PHYSI	ICS	03/09/1998	26	12	
1203	LISA ANAND	E	ENGL	ISH	09/04/2000	27	5	
1045	YASHRAJ	1	MATH	HS	24/08/2000	24	15	
1123	GANAN	F	PHYSI	ICS	16/07/1999	28	3	
1167	HARISH B	(CHEM	IISTRY	19/10/1999	27	5	
1215	UMESH	F	PHYSI	ICS	11/05/1998	22	16	
		COD	E	GENDE	DESIGN	JATION		
		COD	E	GENDE	DESIGN	ATION		
					R			
		1001	1	MALE	VICE PR	RINCIPAL		
		1009	I	FEMALE	COORD	INATOR		
		1203	I	FEMALE	COORD	INATOR	_	
	10		1045 MALE		HOD			
		1123	1	MALE	SENIOR TEACHER		2	
		1167	1	MALE	SENIOR	TEACHER	2	
		1215	N	MALE	HOD			
i.	To decrease pe	eriod bv	10%	of the tea	chers of En	glish subiec	t.	
ii	To display TEACHERNAME, CODE and DESIGNATION from tables SCHOOL							
	and ADMIN whose gender is male.							
iii.	To display nur	nber of t	teach	ers in eac	h subject.			
iv.	To display det	ails of al	ll tead	chers who	have joined	d the school	after 01/01/1999 in	
	descending or	der of ex	perie	ence.				

i) update SCHOOL set PERIODS=0.9*PERIODS; ii) select SCHOOL.TEACHERNAME, SCHOOL.CODE, ADMIN.DESIGNATION from SCHOOL, ADMIN where gender='MALE'. iii) select SUBJECT, count(*) from SCHOOL group by SUBJECT;

iv) select * from SCHOOL where DOJ>' 01/01/1999' order by EXPERIENCE desc;

v) delete from SCHOOL where EXPERIENCE<10;

(1 mark for each correct answer)40Write a function SCOUNT() to read the content of binary file "NAMES.DAT" and display
number of records (each name occupies 20 bytes in file) where name begins from "S" in it.5For. e.g. if the content of file is:

SACHIN	
AMIT	
AMAN	
SUSHIL	
DEEPAK	
HARI SHANKER	
Function should	
display	
Total Names beginning from "S" are 2	
<pre>def SCOUNT(): s=''</pre>	
count=0 with open('Names.dat', 'rb') as f: while(s):	
<pre>s = f.read(20) s=s.decode() if len(s)!=0: if s[0].lower()=='s':</pre>	
count+=1 print('Total names beginning from ''S'' are ',count) OR	
Consider the following CSV file (emp.csv):	
<u>Sl,name,salary</u>	
1,Peter,3500	
2,Scott,4000	
3,Harry,5000	
4,Michael,2500	
5,Sam,4200	
Write Python function DISPEMP() to read the content of file emp.csv and display only those records where salary is 4000 or above	
<pre>import csv def DISPEMP(): with open('emp.csv') as csvfile: myreader = csv.reader(csvfile,delimiter=',') print(''%10s''%''EMPNO'',''%20s''%''EMP NAME'',''%10s''%''SALARY'')</pre>	
for row in myreader: if int(row[2])>4000: print(''%10s''%row[0],''%20s''%row[1],''%10s''%row[2])	
