MARKING SCHEME

Questio n No	Part A	Marks Allocated
	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.	
1	if	1
2	[23,2,9,75]	1
3	Comma	1
4	<	1
5	T.sort()	1
6	D1={ }	1
7	str or string	
8	isalnum()	1
9	FTP (File Transfer Protocol)	1
10	Identity Theft	1
11	DISTINCT	1
12	BETWEEN	1
13	Ans. A NULL value in a table is a value in a field which is blank. This means that a field with a NULL value is a field with no value; not even zero is entered.	1
14	B. Insert	1
15	The type of network that shall be formed to link the sale counters situated in various parts of the same city would be a MAN, because MAN (Metropolitan Area Networks) are the networks that link computer facilities within a city.	1
16	(C).tuple	1
17	GITA	1
18	DROP TABLE student	1
19	Advanced Research Project Agency Network	1
20	PRIMARY KEY	1
21	PAN <lan<man<wan< td=""><td>1</td></lan<man<wan<>	1
	Section-II	
22	a) DRINKCODE b) Degree- 4 Cardinality- 6	1 1
	c) INSERT INTO SOFTDRINK (DRINKCODE,DNAME,PRICE) VALUES (107,'PEPSI',30);	1
	d) DELETE FROM SOFTDRINK; e) DESCRIBE SOFTDRINK OR DESC SOFTDRINK	l 1(any four)
23	1. csv	1
	2. read mode	1
	3. reader	1
	4. 2,Scott,4000	1
	5,Sam,4200 Number of "S" names are 2/5	
	5. myreader	1(any four)
	Part – B	

	Section-I	
24	(a) 27.2	1
	Explanation: The expression shown above is evaluated as: 2+9*(36-8)/10,	
	which simplifies to give $2+9^{*}(2.8)$, which is equal to $2+25.2 = 27.2$. Hence	
	the result of this expression is 27.2.	1
05	(b) True	
25	How are Trojan horses different from Worms? Mention any one difference.	2
	Ans. A Trojan horse is a term used to describe malware that appears to	
	the user to perform a desirable function but which, in fact, facilitates	
	unauthorized access to the user's computer system. A computer Worm is	
	a self-replicating program. It uses a network to send copies of itself to	
	other nodes and that too without human intervention.	
	OR	
	Differentiate between cracking and hacking.	
	Cracking is defined as an attempt to remove the copy protections inserted	
	into software programs. A program successfully stripped of protections is	
	then known as having been "Cracked". Hacking can be ethical/legal but	
	cracking is a totally illegal method and is also called piracy.	
26	POP= Post Office Protocol	2
	TCP/IP=Transmission Control Protocol / Internet Protocol	
	PPP= Point to Point Protocol	
07	SLIP = Serial Line Internet Protocol	-
27	Mutable vs Immutable Objects in Python	2
	Every variable in python holds an instance of an object. There are two types of objects in python i.e. Mutable and Immutable objects . Whenever	
	an object is instantiated, it is assigned a unique object id. The type of the	
	object is defined at the runtime and it can't be changed afterwards.	
	However, it's state can be changed if it is a mutable object.	
	To summarise the difference, mutable objects can change their state or	
	contents and immutable objects can't change their state or content.	
	Immutable Objects : These are of in-built types like int, float, bool,	
	string, unicode, tuple. In simple words, an immutable object can't be	
	changed after it is created.	
	Mutable Objects : These are of type list, dict, set . Custom classes are	
	generally mutable.	
	OR	
	You can also send arguments with the key = value syntax.	
	This way the order of the arguments does not matter.	
	def my_function(child3, child2, child1): print("The youngest child is " + child3)	
	my_function(child1 = "Emil", child2 = "Tobias", child3 = "Linus")	
28	To = 30	2
	for K in range(0,To) :	
	if K%4==0:	
	print (K*4)	
	else:	
	print (K+3)	

	1/2 mark for each correction	
29	(ii) 33#44#55#	2
	Maximum value of Lower: 3	-
	Maximum value of Upper: 4	
30	A foreign key is a key used to link two tables together. This is sometimes	2
	also called as a referencing key. A Foreign Key is a column or a	
	combination of columns whose values match a Primary Key in a different	
	table.	
31	cursor.fetchall() fetches all the rows of a query result. It returns all the	2
	rows as a list of tuples. An empty list is returned if there is no record to	
	fetch.	
	cursor.fetchmany(size) returns the number of rows specified by size	
	argument. When called repeatedly this method fetches the next set of	
	rows of a query result and returns a list of tuples. If no more rows are	
	available, it returns an empty list.	
	records = cursor.fetchall() records = cursor.fetchmany(size)	
32	DDL:	2
02	DDL is Data Definition Language which is used to define data structures.	2
	For example: create table, alter table are instructions in SQL.	
	DML:	
	DML is Data Manipulation Language which is used to manipulate data	
	itself. For example: insert, update, delete are instructions in SQL.	
33	250 # 150	2
55	250 # 100	2
	130 # 100	
	Section-II	
34	def printWords(s):	3
	# split the string	-
	s = s.split(' ')	
	# iterate in words of string	
	for word in s:	
	# if length is even	
	if len(word)%2==0:	
	print(word)	
	# Driver Code s = "i am muskan"	
	printWords(s) Note : any other correct code is also accepted.	
	Note : any other conect code is also accepted.	
35	Write a program to write those lines which have the character 'p' from one	3
	text file to another text file.	
	fin=open("E:\\book.txt","r")	
	fout=open("E:\\story.txt","a")	
	s=fin.readlines()	
	for j in s:	
	if 'p' in j:	
	fout.write(j) fin.close()	

	fout.close()	
	OR	
	Write a program to count the number of times the occurrence of 'is' word	
	in a text file	
	fin=open("D: \\Book.txt",'r')	
	str=fin.read()	
	L=str.split()	
	count=0 for i in L:	
	if i=='is':	
	count=count+1	
	print(count)	
	fin.close()	
36	1)	3
	DELHI 3	
	MUMBAI 2	
	MADRAS 1	
	2) 50000, 70000	
	3)	
	MOBILE MUMBAI 70000	
	MOBILE MUMBAI 25000	
37	def DELQ(queue):	3
	if (queue == []):	
	print ("Queue is empty .")	
	else:	
	print("Deleted element is", queue[0]) del queue[0]	
	OR	
	def POP(Book):	
	if (Book ==[]):	
	print("Stack empty")	
	else:	
	print("Deleted element")	
00	Book.pop()	-
38	(a) Production Unit	5
	(b) MAN and LAN.	
	(c)Switch/Hub.	
	(d)Optical fibre.	
	(e) An effective method/technology for connecting the company's office in Delhi and Chennai is broadband connection.	
39	(a) SELECT TEACHERNAME, PERIODS FROM SCHOOL WHERE	5
55	PERIODS>25;	5
	(b) SELECT * FROM SCHOOL;	
	(c) SELECT DISTINCT DESIGNATION FROM ADMIN;	
	(d) SELECT TEACHERNAME.CODE, DESIGNATION FROM	
	SHOOL.CODE=ADMIN.CODE WHERE GENDER='MALE'	
	(e) UPDATE SCHOOL	
	SET PERIODS=PERIODS+2	
	WHERE EXPERIENCE>10;	

40	A binary file "Employee.dat" has structure [EmpNo, EmpName,	5
	Designation, Salary]. i. Write a user defined function CreateFile() to input data for a record and	
	add to Book.dat .	
	ii. Write a function CountRec(Designation) in Python which accepts	
	the Designation as parameter and count and return number of	
	employees by the given Designation are stored in the binary file	
	"Employee.dat"	
	: import pickle	
	<pre>def CreateFile():</pre>	
	<pre>fob=open('Employee.dat','ab')</pre>	
	<pre>EmpNo=int(input('"Employee Number"')) EmpNo=input('"Employee Number"')</pre>	
	<pre>EmpName=input('"Employee Name"') Designation=input('Designation')</pre>	
	Salary=int(input('Salary'))	
	<pre>rec=[EmpNo,EmpName,Designation,Salary]</pre>	
	pickle.dump(rec,fob)	
	<pre>fob.close() def CountRec(Designation):</pre>	
	fobj=open("Employee.dat", "rb")	
	num = 0	
	try:	
	<pre>while True: rec=pickle.load(fobj)</pre>	
	if Designation==rec[2]:	
	num=num+1	
	except:	
	fobj.close() return num	
	CreateFile()	
	a=CountRec("pgt")	
	print(a)	
	OR	
	A binany filo "Employee dat" has structure [Employ_Employee	
	A binary file "Employee.dat" has structure [EmpNo, EmpName, Designation, Salary]. Write a function CountRec() in Python that would	
	read contents of the file "Emp.dat" and display the details of those	
	employees whose salary is above 25000. Also display number of	
	employees who are getting salary above 25000.	

```
def CountRec():
    fobj=open("Employee.dat","rb")
    num = 0
    try:
        while True:
            rec=pickle.load(fobj)
            if rec[3]>25000:
                print(rec[0],rec[1],rec[2],rec[3],sep="\t")
                num=num+1
    except:
        fobj.close()
    return num
a=CountRec()
print(a)
```