TIME: 3 HRS **MARKING SCHEME** **MM:70**

Ques. No.	Question	Marks
	SECTION A	
1	Ans**: TRUE**	1
2	Ans**: a**	1
3	Ans**: c**	1
4	Ans**: a**:	1
5	Ans: d	1
6	Ans : b	1
7	**Ans: a**	1
8	**Ans: d**	1
9	**Ans: b**	1
10	**Ans: b**	1
11	**Ans: c**	1
12	**Ans: c**	1
13	False	1
14	Ans: d	1
15	Ans: Packet Switching	1
16	**Ans: a**	1
17	Ans: a Both A and R are true and R is the correct explanation for A	1
18	**Ans: c A is True but R is False**	1

	SECTION B	

19	Expand the following terms related to Computer Networks:
	i.
	
	a. SMTP – SIMPLE MAIL TRANSFER PROTOCOL
	b. POP – POST OFFICE PROTOCOL OR POINT OF PRESENCE
	ii. optical Fibre and Microwave
	 OR
	    i. CORRECT DEFINITION FULL MARKS. 1 MARK FOR PARTIAL CORRECT
	
	    ii. ½ mark for Advantage, ½ mark for disadvantage
		1+1=2

20	```python
	def oddtoeven(L):
	    for i in range(len(L)):
	        if(L[i]%2 !=0):
	            L[i] = L[i]*2
	print(L)
	``
	½ mark for each correction.
		2

21	Ans:
	
	``python
	city ={1:"Delhi",2:"London",3:"Kolkata",4:"New York",5:"Moscow"}
	
	def count(city):
	    for c in city.values():
	        if len(c)<7:
	            print(c.upper())
	count(city)
	``
	
	 OR
	
	Ans:
	``python
	str = "this too shall pass"
	def Words_Length(str):
	    K=[]
	    L = str.split()
	    for word in L:
	        length = len(word)
	        K.append(length)
	    return K
	x = Words_Length(str)
	``
		2

22	Ans: 4#F 31#2 23#F 12#4	2
23	**Ans: 8 # 40 # 29 # 13 #** **OR** unchanged(30, 50) changed(16, 50) unchanged(16, 22) changed(11, 22)	1+1=2
24	Ans: Alter Table Employee Add Primary Key(Empno);	2

[2]

	OR	
	Alter Table School Change sid Student_id int Primary key;	
25	**Ans:** Before calling fun2: 100 x in func()2 200 After calling fun2: 100 x in main:	2

<div align="center">

SECTION C

</div>

26	pYTHOn#@#.1	3

27	(i) CHESS
	          CRICKET
	          VOLLEYBALL
	          KARATE
	(ii) AMRITA CHESS
	         AMINA CHESS
	(iii) MEENA 23 1000
	         AMINA 36 1100
		1*3=3

28	Write a function in Python to read a text file, Story.txtand displaysthose lines which begin with the word 'Once'.
	
	Ans:
	
	``python
	def test():
	    file = open("story.txt","r")
	    ch = file.readlines()
	    for line in ch:
	        L = line.split()
	        if L[0]=="once":
	            print(line)
	``
	 OR
		3

	Write a method COUNTLINES() in Python to read lines from text file 'FILE.TXT' and display the no. of lines which are starting with any vowel.
	
	Ans:
	
	``python
	def COUNTLINES() :
	    file = open ('TESTFILE.TXT','r')
	    lines = file.readlines()
	    count=0
	    for w in lines :
	        if (w[0]).lower() in 'aeoiu'count = count + 1
	            print ("The number of lines starting with anyvowel: ", count)
	``	

<div align="center">

[3]

</div>

	file.close() *(½ mark for correctly opening and closing the file* *½ for readlines()* *½ mar for correct loop* *½ for correct if statement* *½ mark for correctly incrementing count* *½ mark for displaying the correct output)*	
29	Based on the given table, write SQL queries for the following: (i) Update HRM set salary = salary*1.05 where incentive I NULL; (ii) Select name,salary + incentive as "Total Salary" from HRM; **(iii)** nDelete from HRM where designation = "supervisor" and salary < 50000;	1*3=3
| 30 | ```python
status=[]
def Push_element(patient):
    if patient[2]=="Delhi":
        Ll=[pateint[0],patient[l]]
        status.append(Ll)
def Pop_element ():
    num=len(status)
    while  len(status)!=0:
        dele=status.pop()
        print(dele)
        num=num-1
    else:
        print("Stack Empty")
``` | 3 |
| | <div align="center">**SECTION D**</div> | |
| 31 | Write SQL queries :
  i.   **Select Iname,Cname from item,company where Item.cid = company.cid;**
  ii.   **Describe item.**
  iii.   **Select Cid,max(rating) from Item group by cid;**
  iv.   **Select iname,price,rating from item order by rating asc.** | 5 |

| 32 | ```python
import csv
def Input():
    headings=["Player_ID", "Player_Name","Game","Result"]
    sid=int(input("Enter Student ID "))
    sname=input("Enter Student Name ")
    game= input("Enter name of game ")
    res=input("Enter Result")
    data=[sid,sname,game,res]
    f=open('sports.csv', 'a', newline='')
    csvwriter=csv.writer(f)
    csvwriter.writerow(headings)
    csvwriter.writerow(data)
    f.close()
def Winner_count():
    C = 0
    f=open('sports.csv','r')
    csvreader=csv.reader(f,delimiter=',')
    head=list(csvreader)
    print(head[0])
    for x in head:
        if x[3]=="WON":
            print(x)
            C = C + 1
    print(C)
    f.close()
Input()
Winner_count()
```

½ mark for accepting data correctly
½ mark for opening and closing file
 ½ mark for writing headings
½ mark for writing row
½ mark for accepting data correctly
½ mark for opening and closing file
½ mark for writing headings
½ mark for writing row | 4 |
SECTION E		
33	(i). Admin Block. (ii). 1 mark for correct layout. (iii). Switch / Hub. (iv) Ethernet Cable (v) Firewall.	
34	(i) 2 marks for correct definition (ii) 3 marks for correct function	
35	Row is called as tuple in relational data model.	

```
import mysql.connector as mysql
con1=mysql.connect(host="localhost",user="root",password="tiger",database="HRM")
mycursor=con1.cursor()
eno = int(input("enter employee number"))
ename = input("enter employee name")
DOB = input("enter date of birth")
Salary = float(input("enter salary"))
query=("insert into emp values{{},'{}','{}',{}}".format(eno,ename,DOB,Salary))
mycursor.execute(query)
data = mycursor.fetchall()
for rec in data:
        print(rec)
con1.close()
```

OR

Primary key can never be NULL but UNIQUE can be NULL. Primary Key can be only one in a   table. Unique can be applied on more than one column

```
import mysql.connector as mysql
con1=mysql.connect(host="localhost",user="root",password="tiger",database="HRM")
mycursor=con1.cursor()
query=("select * from Product where salary>{}".format(10000))
mycursor.execute(query)
data = mycursor.fetchall()
for rec in data:
        print(rec)
con1.close()
```

½ mark for importing correct module
1 mark for correct connect()
½ mark for correctly accepting the input
1 ½ mark for correctly executing the query
½ mark for correctly using commit()

[6]