KENDRIYA VIDYALAYA SANGATHAN, CHENNAI REGION
CLASS: XII SESSION: 2024-25
PREBOARD I MARKING SCHEME
COMPUTER SCIENCE (083)

Time allowed: 3 Hours Maximum Marks: 70

Q No.	Section-A (21 x 1 = 21 Marks)	Marks
1	False (1 mark for correct answer)	1
2	iv) [2,14,3,7] (1 mark for correct answer)	1
3	ii) 4.6 (1 mark for correct answer)	1
4	ii) ['', 'hinese ', 'ontinental'] (1 mark for correct answer)	1
5	so ie (1 mark for correct answer)	1
6	ii) 100 (1 mark for correct answer)	1
7	ii) print(farm[‘sheep’,’hen’]) (1 mark for correct answer)	1
8	iii) Replace all occurrences of ‘e’ to ‘h’ (1 mark for correct answer)	1
9	iii)2 (1 mark for correct answer)	1
10	file.seek(0) (1 mark for correct answer)	1
11	iii) raise (1 mark for correct answer)	1
12	ii) 5500.0%6000$ (1 mark for correct answer)	1
13	ALTER (or ALTER TABLE) (1 mark for correct answer)	1
14	iii) Customers details whose code’s second letter is A (1 mark for correct answer)	1
15	i) (20,34) (1 mark for correct answer)	1
16	c)count(col) (1 mark for correct answer)	1
17	a)IP (1 mark for correct answer)	1
18	c)Modem (1 mark for correct answer)	1
19	Packet Switching (1 mark for correct answer)	1
	Q20 and Q21 are Assertion(A) and Reason(R) based questions. Mark the correct choice as: (A) Both A and R are true and R is the correct explanation for A (B) Both A and R are true and R is not the correct explanation for A (C) A is True but R is False (D) A is False but R is True	
20	A) Both A and B are true and R is the correct explanation for A (1 mark for correct answer)	1
21	D) A is False B is True	1

Q No.	Section-B (7 x 2=14 Marks)	Marks
22	Difference 1 mark Example ½ mark each	2
23	a) Assignment Operators = += -= *= **= /= //= %= b) Logical Operators not and or (any two from each) (1/2 mark for each correct operator)	2
24	(i) A) L1.pop(4) Or B) a=max(L2) or print(max(L2) (ii) (A) L1.append(L2) OR (B) L2.insert(1,15)	2
25	Identify the correct output(s) of the following code. Also write the minimum and the maximum possible values of the variable Lot Minimum value possible for Lot: 4 Maximum value possible for Lot: 8 Possible outputs are : i) and ii)	2
26	Identify Primary Key and Candidate Key present if any in the below table name Colleges. Justify Primary Key: Cid its unique Candidate Key: Cid, Name, PhoneNumber as they are have unique values	2
27	(I) (A) UNIQUE ,NOT NULL OR (B) NOT NULL (PRIMARY KEY CAN BE GIVEN MARK) (II) (A) ALTER TABLE flight ADD PRIMARY KEY(F_id); OR (B) ALTER TABLE CUSTOMER DROP REMARKS;	2
28	STAR Adv DisAdv ½ mark each BUS Adv DisAdv ½ mark each OR DNS definition 1 mark, IP purpose 1 mark	2

Q No.	Section-C (3 x 3 = 9 Marks)	Marks
29	a) Opening and closing file ½ mark Read() ½ mark split() ½ mark Loop ½ mark upper case checking ½ mark Output display ½ mark OR b) Opening and closing file ½ mark Readlines() ½ mark Loop ½ mark counting no of words ½ mark Output display ½ mark	3
30	(1/2 for identifying even numbers) (1/2 mark for correctly adding data to stack) (1/2 mark for correctly poping data on the stack and 1/2 mark for checking condition) (1/2 mark for correctly displaying the data with none) (1/2 mark for function call statements) OR	3

	(1 ½ mark for correct function body; No marks for any function header as it was a part of the question)	
31	ILENCE-^OPE-^UCCEs^^^14 correct o/p 3 mark	3

Q No.	Section-D (4 x 4 = 16 Marks)	Marks

32	i) SELECT COUNT(DISTINCT VTYPE) FROM VEHICLE;
	ii) SELECT VTYPE,COUNT(*) FROM VEHICLE GROUP BY VTYPE HAVING MIN(COST)>80;
	iii) UPDATE VEHICLE SET COST=45 WHERE COST IS NULL
	iv) SELECT OWNER ,VTYPE,CONTACT FROM VEHICLE WHERE OWNER LIKE "P%";
	OR
	i)
	+--------------------+----------------+
	| VTYPE | AVG(COST) |
	+--------------------+----------------+
	| CAR | 65.0000 |
	| truck | 125.0000 |
	| Moter Cycle | NULL |
	| SUV | 65.0000 |
	| MOTOR CYCLE | NULL |
	+--------------------+----------------+
	ii)
	+--------------------+---------------------+-----------------+
	| OWNER | VTYPE | CONTACT |
	+--------------------+---------------------+-----------------+
	| Prem Sharma | Moter Cycle | 9987654321 |
	| PRIYA REDDY | MOTOR CYCLE | 9123456789 |
	+--------------------+---------------------+-----------------+
	iii)
	+--------------+
	| COUNT(*) |
	+--------------+
	| 2 |
	+--------------+
	iv)
	+----------------+
	| MAX(COST) |
	+----------------+
	| 125 |
	+----------------+
		4

33	(½ mark for opening in the file in right mode) (½ mark for correctly creating the reader object) (½ mark for correctly checking the condition) (½ mark for correctly displaying the records) OR (½ mark for opening in the file in right mode) (½ mark for correctly creating the reader object) (½ mark for correct use of counter) (½ mark for correctly displaying the counter)	4
34	i) select airports.a_id,city,f_id,F_no from flights,airports where flights.f_id=airports.a_id and departure="DEL"; ii) select * from flights where arrival="bom" or arrival="Maa" or arrival="ccu";	4

	iii) delete from flights where F_no like "6E%"; iv) (A) select * from flights,airports; OR (b) select airports.a_id,city,flights.f_id from flights,airports where airports.a_id=flights.a_id;	

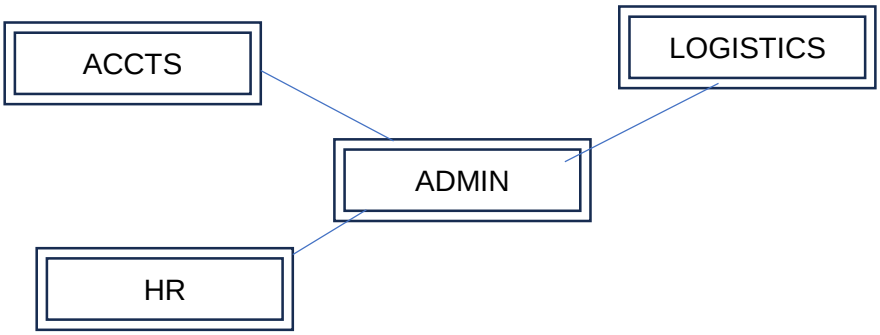
35	#interface code
	import mysql.connector as mn
	def Input_Disp():
	con=mc.connect(host="localhost",user="root",password="tiger",database="VRMALL")
	cur=con.cursor()
	print("Enter Event Details:")
	eid=input("ID:")
	ename=input("NAME:")
	edate=input("DATE:")
	des=input("Description:")
	query="insert into Event values("+eid+",'"+ename+"','"+edate+"','"+des+"')"
	cur.execute(query)
	con.commit()
	print("Record Inserted")
	
	print("Details of Event organised in year 2024")
	query="select * from Event where eventdate like '2024'"
	cur.execute(query)
	data=cur.fetchall()
	print("ID NAME DATE DESCRIPTION")
	for rec in data:
	print(rec[0],rec[1],rec[2],rec[3],sep= " ")
	con.close()
	or any other relavant code
	
	import ½ mark
	Connectivity stmt ½ mark
	Cursor creation query creation ,execute(), commit ½ mark each
	Query creation, cursor execution ½ mark each
	Fetching data and display loop ½ mark each
		4

Q No	Section-E (2 x 5 = 10 Marks)	Marks

36	#binary file
	def Prj_input():
	file=open("Projects.dat","ab")
	print("Enter Project Details:")
	pid=int(input("ID:"))
	pname=input("NAME:")
	mem=int(input("MEMBERS:"))
	dur=int(input("DURATION IN MONTHS:"))
	rec=[pid,pname,mem,dur]
	pickle.dump(rec,file)
	file.close()
	print("data inserted")
	def Prj_update():
	file=open("Projects.dat","rb+")
	try:
	while True:
	pos=file.tell()
	rec=pickle.load(file)	

	5	

	if rec[2]>3:
	rec[3]=3
	file.seek(pos)
	pickle.dump(rec,file)
	except EOFError:
	pass
	finally:
	file.close()
	print("Record modified")
	def Prj_solo():
	file=open("Projects.dat","rb")
	try:
	print("PROJECT DETAILS")
	print("ID NAME MEMBERS DURATION")
	import pickle ½ mark
	input and close ½ mark ,insert 1 mark
	try except block ½ mark loop ½ mark
	reading records , updation ½ mark each
	try catch block ½ mark
	loop ½ mark fetching and display ½ mark each	

37	i) Server to be placed in ADMIN block as it has maximum number of computers(70 30 traffic rule) ii) Coaxial cable/fiber optics iii) Star topology or any other layout  iv) VoIP Voice over internet Protocol v) a) Repeater –distance more then 90 m –all ..if fiber optical cable then no repeater b) Switch- in each block as to connect computers	5