

MARKING SCHEME

SECTION-A		
1	(D) str	1
2	(C) PYTHON#CKS	1
3	(A) 9	1
4	(A) EN	1
5	(A) 'aeoo'	1
6	(C) (10)	1
7	(A) d['autumn']	1
8	(B)ceieP0	1
9	(C) Foreign Key	1
10	(C) Seek()	1
11	(B) >=0	1
12	(C) def fun(a=1,b=1,c=2):	1
13	(B) DELETE	1
14	(C) SELECT name FROM employees WHERE salary > (SELECT AVG(salary) FROM employees);	1
15	(C) drop database Clients	1
16	(B) COUNT(DISTINCT Col Name)	1
17	(C) SMTP	1
18	(D) Gateway	1
19	(C) alter	1
20	(B) Both A and R are true and R is not the correct explanation for A	1
21	(A) Both A and R are true and R is the correct explanation for A	1
SECTION-B		
22	a) LIST b) TUPLE (1 Mark for each Correct Answer)	2
23	A. Logical operators: and, or, not (1 mark for correct answer) B. Membership operators: in, not in (1 mark for correct answer)	2
24	PLACES={1: "Delhi", 2: "London", 3: "Paris", 4: "New York",5: "Dubai "} def countNow (PLACES) : for place in PLACES.values ():	2

	<pre> if len (place) > 5: print (place. upper ()) countNow (PLACES) (OR) def lenwords (STRING) : T=() L=STRING. split () for word in L: length=len (word) T=T+(length,) return T </pre> <p>(1 mark for correct logic and 1 mark for usage of loops and functions)</p>	
25	<p>(A) YELLOW # RED # 1 Mark Possible values of k are 2 and 1 – ½ mark for each correct answer</p>	2
26	<p>1 Mark for definition of foreign key 1 mark for example</p>	2
27	<p>A) Satheesh has created a database “school” and table “student”.</p> <p>i) Show databases;. ii) Desc student;</p> <p style="text-align: center;">OR</p> <p>B)</p> <p>i) Alter table student add phonenum integer: ii) Slect count(*) from student;</p>	2
28	<p>2 Marks: for correct definition OR POP- Post Office Protocol VoIP-Voice over internet Protocol ½ mark for each correct expansion 1 mark for mentioning correct use of protocol</p>	2
SECTION-C		
29	<pre> 1.def count_words_in_article(): try: with open("Article.txt", "r") as file: content = file.read() words = content.split() word_count = len(words) print(f"Number of words in the file: {word_count}") except FileNotFoundError: print("File 'Article.txt' not found.") # Example usage: # count_words_in_article() </pre> <p>(½ Mark for function definition , 1 mark for function open & reading, ½ mark for split() ½ mark for count, ½ mark for printing)</p> <p style="text-align: center;">OR</p> <pre> def display_success_lines(): try: with open("Logs.txt", "r") as file: lines = file.readlines() </pre>	3

	<pre> for line in lines: if "success" in line.lower(): # Case-insensitive search print(line.strip()) except FileNotFoundError: print("File 'Logs.txt' not found.") # Example usage: # display_success_lines() (½ Mark for function definition , 1 mark for function open & reading, 1 mark for for loop and condition mark for split() , ½ mark for strip()) </pre>									
30	<pre> travel = [] def Push_element(NList): for L in NList: if L[1] != "India" and L[2]<3500: travel.append(L[0], L[1]) def Pop_element(): while len(travel): print(travel.pop()) else: print("Stack Empty") </pre> <p>1 ½ for defining function, checking condition and appending values to list 1 1/2 marks for using while loop, printing the deleting value and printing stack empty if stack is empty</p> <p style="text-align: center;">OR</p> <p><i>1 mark for pushing values into the stack 1 mark for displaying topmost value in the list 1 mark for displaying odd numbers from the list without deleting them and displaying none if no elements are there</i></p>	3								
31	<pre> (a) 4*L 33*4 21*5 10*6 (OR) (B) 1 #2 #3# 1 #2 #3 # 1 # </pre> <p style="text-align: center;">(1 mark each for each line of correct output(Maximum 3))</p>	3								
SECTION-D										
32	<p>i)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>D_NAME</td></tr> <tr><td>GUPTA</td></tr> <tr><td>HANEEF</td></tr> </table> <p>ii)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>D_DEPT</td></tr> <tr><td>ENT</td></tr> <tr><td>MEDICINE</td></tr> <tr><td>ORTHO</td></tr> <tr><td>CARDIOLOGY</td></tr> </table>	D_NAME	GUPTA	HANEEF	D_DEPT	ENT	MEDICINE	ORTHO	CARDIOLOGY	4
D_NAME										
GUPTA										
HANEEF										
D_DEPT										
ENT										
MEDICINE										
ORTHO										
CARDIOLOGY										

SKIN

iii)

D_NAME	EXPERIENC E
DEEPTI	6
SUMAN	7
JOSEPH	10
GUPTA	12
HANEEF	12
VEENA	12

iv)

Count(*)
3

(1 Mark for Each Correct Answer)

OR

- i) Select D_DEPT, count(*) from DOCTOR group by D_DEPT;
- ii) Select D_NAME from DOCTOR where EXPERIENCE >10 ;
- iii) Select * from DOCTOR where GENDER = "FEMALE" ;
- iv) Update doctor set D_DEPT="ENT" where D_NAME = "SUMAN";

(1 Mark for Each Correct Answer)

33

import csv

i. def display_hot_cities(filename):

with open(filename, mode='r') as file:

reader = csv.reader(file)

next(reader)

hot_cities = [row for row in reader if float(row[1]) > 30]

for row in hot_cities:

print(row)

ii. def calculate_average_rainfall(filename):

with open(filename, mode='r') as file:

reader = csv.reader(file)

next(reader)

total_rainfall = 0

count = 0

for row in reader:

total_rainfall += float(row[3])

count += 1

average_rainfall = total_rainfall / count if count != 0 else 0

print(f"Average Rainfall across all records: {average_rainfall:.2f} mm")

filename = "WeatherData.csv"

display_hot_cities(filename)

calculate_average_rainfall(filename)

(½ importing csv , ½ csv reader, Temperature Filtering and Display (1 Mark) ,
Rainfall Calculation (1 Mark), Function Structure and Output (1 Mark))

4

34

- i) SELECT CLASS,SEC,SNAME FROM STUDENT,ST-HOUSE WHERE STUDENT.House=ST-HOUSE.Hid and Hname='NARMADA'
- ii) select count(*) from student
- iii) select sname from student order by name desc

4

	<p>iv)</p> <p>a) delete from student where sec='A' ;</p> <p style="text-align: center;">OR</p> <p>b) ALTER TABLE ST-HOUSE ADD (HMEMBER VARCHAR (20));</p> <p style="text-align: center;">(1 Mark each correct Answer)</p>	
35	<pre>import mysql.connector mycon=mysql.connector.connect(host="localhost",user="root",passwd="KVR@321",database="SPORTS") cursor=mycon.cursor() cursor.execute("select * from nationalsports where venue='Hyderabad' ") data=cursor.fetchall() for row in data: print(row) mycon.close()</pre> <p>(½ mark for correctly importing the connector object) (½ mark for correctly creating the connection object & cursor object) (1 mark for correct creation of correct query & Execute Function) (1 mark for correctly fetching all records) (1 mark for correctly displaying the data)</p>	4
SECTION-E		
36	<p>(I)</p> <pre>import pickle def append_customer_data(customers): file = open('customers.dat', 'ab') n = int(input("Enter the number of candidates you want to add: ")) for i in range(n): cust_id = int(input("Enter Candidate ID: ")) cust_name = input("Enter Candidate Name: ") address = input("Enter Designation: ") receiptno = int(input("Enter receipt no: ")) cust = [cust_id, cust_name, address,receiptno] pickle.dump(cust, file) print("Customer data appended successfully.") file.close()</pre> <p>(II)</p> <pre>import pickle def update_secunderabad(): file=open('customers.dat', 'rb+') while True: try: pos = file.tell() customer = pickle.load(file) if customer[3] == 101: customer[2] = 'Secunderabad' file.seek(pos) pickle.dump(customer, file) except EOFError FileNotFoundError: print("No candidate data found or reached end of file.") break # End of file reached except print("Customers updated where applicable.") file.close()</pre> <p>(III)</p> <pre>import pickle</pre>	1+2 +2

	<pre> def display_non_sec(): try: with open('customers.dat', 'rb') as file: while True: try: candidate = pickle.load(file) if candidate[2] != 'Secunderabad': print(candidate) except EOFError: break # End of file reached except FileNotFoundError: print("No candidate data found. Please add candidates first.") </pre> <p>(1/2 mark of import pickle) (1/2 mark for input) (1/2 mark for opening file in append mode and 1/2 mark for using dump) (1/2 mark for opening file in read mode and 1/2 mark for using load) (1 mark for checking the condition and updating the value) (1 mark for checking the condition and displaying data correctly)</p>	
37		
(i)	a)LAN	1
(ii)	bus or star layout	1
(iii)	block C, Because it has more no of computers.. Which reduces outgoing network traffic	1
(iv)	hub/switch in all block, repeater where distance is more than 100 meter	1
(v)	A) satellite <p style="text-align: center;">OR</p> B)Firewall	1
