

## Marking Scheme

### Class XII

### Computer Science (083)

<u>Ques No</u>	<u>Question and Answers</u>	<u>Distribution of Marks</u>	<u>Total Marks</u>
<b><u>SECTION A</u></b>			
1	False	1 mark for correct answer	1
2	Option b 6,20	1 mark for correct answer	1
3	Option c -244.0	1 mark for correct answer	1
4	PYTHON-is-Fun	1 mark for correct answer	1
5	Option b 8,15	1 mark for correct answer	1
6	Option a PAN	1 mark for correct answer	1
7	Option b <code>del D1 ["Red"]</code>	1 mark for correct answer	1
8	Option b	1 mark for correct answer	1

	ceieP0		
9	Option d  Statement 4	1 mark for correct answer	1
10	Option b  YELLOW* WHITE* BLACK* RED*	1 mark for correct answer	1
11	Option b  Modulator	1 mark for correct answer	1
12	Option c  global b	1 mark for correct answer	1
13	True	1 mark for correct answer	1
14	Option c  A candidate key that is not a primary key is a foreign key.	1 mark for correct answer	1
15	circuit	1 mark for correct answer	1
16	Option c  seek ()	1 mark for correct answer	1

Option d  
A is false but R is True

1 mark for  
correct  
answer

1

18	Option b
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Both A and R are true but R is not the correct explanation for A

1 mark for  
correct  
answer

1

## **SECTION B**

19

(i)

## POP3 – Post Office Protocol 3

URL – Uniform Resource Locator

$$(\ddot{\mathbf{i}}\mathbf{i})$$

## HTML( Hyper text mark Up language)

- We use pre-defined tags
- Static web development language – only focuses on how data looks
- It use for only displaying data, cannot transport data
- Not case sensistive

## XML (Extensible Markup Language)

- we can define our own tags and use them
- Dynamic web development language – as it is used for transporting and storing data
- Case sensitive

$\frac{1}{2}$ mark for each correct expansion	$\frac{1}{2}$ mark for each correct expansion
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 $1+1=2$ 

1 mark for  
any one  
correct  
difference

No mark to be awarded if only full form is given

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20

```
def revNumber(num):  
    rev = 0  
    rem = 0  
    while num > 0:
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½ mark for each
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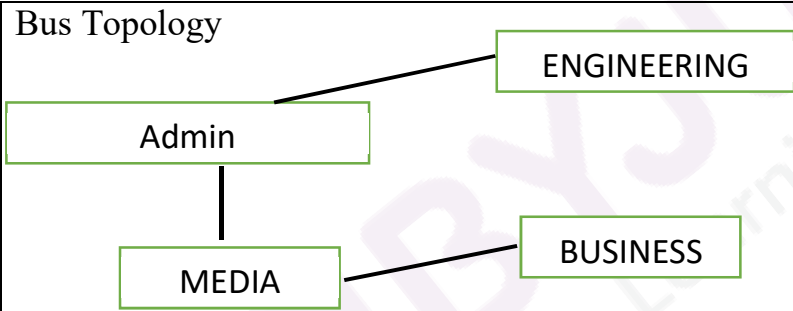
2

	<pre> rem = num % 10 rev = rev * 10 + rem num = num // 10 return rev print(revNumber(1234)) </pre>	correction made	
21	<pre> PLACES={1:"Delhi",2:"London",3:"Paris",4:"New York",5:"Dubai"} def countNow(PLACES):     for place in PLACES.values():         if len(place)&gt;5:             print(place.upper()) countNow(PLACES) </pre> <p style="text-align: center;">OR</p> <pre> def lenWords (STRING) :     T= ()     L=STRING.split()     for word in L:         length=len(word)         T=T+(length,)     return T </pre> <p><b><u>Note: Any other correct logic may be marked</u></b></p>	<p>½ mark for correct function header</p> <p>½ mark for correct loop</p> <p>½ mark for correct if statement</p> <p>½ mark for displaying the output</p> <p>½ mark for correct function header</p> <p>½ mark for using split()</p> <p>½ mark for adding to tuple</p> <p>½ mark for return statement</p>	2

22	$4 * L$ $33 * 4$ $21 * S$ $10 * 6$	½ mark for each correct line of output	2
23	(i) <code>L1.insert(2,200)</code> (ii) <code>message.endswith('.')</code>	1 mark for each correct statement	1+1=2
24	SQL Command to add primary key:  <code>ALTER TABLE Employee ADD EmpId INTEGER PRIMARY KEY;</code>  As the primary key is added as the last field, the command for inserting data will be:  <code>INSERT INTO Employee VALUES ("Shweta", "Production", 26900, 999);</code>  OR  <code>INSERT INTO Employee (EmpId, Ename, Department, Salary) VALUES (999, "Shweta", "Production", 26900);</code>	1 mark for correct ALTER TABLE command  1 mark for correct INSERT command	2
25	$10.0\$20$ $10.0\$2.0###$	1 mark for each correct line of output	2
<b><u>SECTION C</u></b>			
26	ND-*34	½ mark for each correct character	3
27			

	<p>(i)</p> <table><tr><td>COUNT (DISTINCT SPORTS)</td></tr><tr><td>4</td></tr></table> <p>(ii)</p> <table><tr><td>CNAME</td><td>SPORTS</td></tr><tr><td>AMINA</td><td>CHESS</td></tr></table> <p>(iii)</p> <table><tr><td>CNAME</td><td>AGE</td><td>PAY</td></tr><tr><td>AMRIT</td><td>28</td><td>1000</td></tr><tr><td>VIRAT</td><td>35</td><td>1050</td></tr></table>	COUNT (DISTINCT SPORTS)	4	CNAME	SPORTS	AMINA	CHESS	CNAME	AGE	PAY	AMRIT	28	1000	VIRAT	35	1050	1 mark for each correct output	1*3=3
COUNT (DISTINCT SPORTS)																		
4																		
CNAME	SPORTS																	
AMINA	CHESS																	
CNAME	AGE	PAY																
AMRIT	28	1000																
VIRAT	35	1050																
28	<pre>def test():     fObj1 = open("Alpha.txt", "r")     data = fObj1.readlines()     for line in data:         L=line.split()         if L[0]=="You":             print(line)     fObj1.close()</pre> <p>OR</p>	1 mark for correctly opening and closing files  ½ mark for correctly reading data  1 mark for correct loop and if statement  ½ mark for displaying data	3															

	<pre>def vowelCount():     fObj = open("Alpha.txt", "r")     data = str(fObj.read())     cnt=0     for ch in data:         if ch in "aeiouAEIOU":             cnt=cnt+1     print(cnt)     fObj.close()</pre> <p><b><u>Note: Any other correct logic may be marked</u></b></p>	<p>1 mark for correctly opening and closing the files</p> <p>½ mark for correctly reading data</p> <p>1 mark for correct loop and if statement</p> <p>½ mark for displaying the output.</p>	
29	<p>(i)</p> <pre>UPDATE Personal SET Salary=Salary*0.5 WHERE Allowance IS NOT NULL;</pre> <p>(ii)</p> <pre>SELECT Name, Salary+Allowance AS "Total Salary" FROM Personal;</pre> <p>(iii)</p> <pre>DELETE FROM Personal WHERE Salary&gt;25000</pre>	<p>1 mark for each correct query</p>	1*3=3

30	<pre> travel = [] def Push_element(NList):     for L in NList:         if L[1] != "India" and L[2]&lt;3500:             travel.append([L[0],L[1]])  def Pop_element():     while len(travel):         print(travel.pop())     else:         print("Stack Empty") </pre>	1 ½ marks for each function	3
<b><u>SECTION D</u></b>			
31	<p>a)</p>  <p>b) Switch c) Admin block, as it has maximum number of computers. d) Microwave e) Firewall</p>	1 mark for each correct answer	1*5=5
32	<p>(i)</p> <p>r+ mode:</p> <ul style="list-style-type: none"> <li>• Primary function is reading</li> <li>• File pointer is at beginning of file</li> <li>• if the file does not exist, it results in an error</li> </ul> <p>w+ mode:</p>	1 mark for each correct difference  ( minimum two differences should be given)	2+3=5



	<ul style="list-style-type: none"> <li>• primary function is writing</li> <li>• if the file does not exist, it creates a new file.</li> <li>• If the file exists, previous data is overwritten</li> <li>• File pointer is at the beginning of file</li> </ul> <p>(ii)</p> <pre>def copyData():     fObj = open("SPORT.DAT", "rb")     fObj1 = open("BASKET.DAT", "wb")     cnt=0     try:         while True:             data = pickle.load(fObj)             print(data)             if data[0] == "Basket Ball":                 pickle.dump(data, fObj1)                 cnt+=1     except:         fObj.close()         fObj1.close()     return cnt</pre> <p style="text-align: center;"><b>OR</b> (Only for option ii)</p> <pre>def Searchtype(mtype):     fObj = open("CINEMA.DAT", "rb")     try:         while True:             data = pickle.load(fObj)             if data[2] == mtype:                 print("Movie number:", data[0])                 print("Movie Name:", data[1])                 print("Movie Type:", data[2])     except EOFError:         fObj.close()</pre>	<p>½ mark for correctly opening and closing files</p> <p>½ mark for correct try and except block</p> <p>½ mark for correct loop</p> <p>1 mark for correctly copying data</p> <p>½ mark for correct return statement</p> <p>½ mark for correctly opening and closing files</p> <p>½ mark for correct try and except block</p> <p>½ mark for correct loop</p>	
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	<p><b><u>Note: Any other correct logic may be marked</u></b></p>	<p>½ mark for correct if statement</p> <p>1 mark for correctly displaying data</p>	
33	<p>(i) Domain is a set of values from which an attribute can take value in each row. For example, roll no field can have only integer values and so its domain is a set of integer values</p> <p>(ii)</p> <pre>import mysql.connector as mysql con1 = mysql.connect(host="localhost",user="root", password="tiger", database="sample2023") mycursor=con1.cursor() rno = int(input("Enter Roll Number:: ")) name = input("Enter the name:: ") DOB = input("Enter date of birth:: ") fee= float(input("Enter Fee:: ")) query = "INSERT into student values({}, '{}', '{}', {})".format(rno,name,DOB,fee) mycursor.execute(query) con1.commit() print("Data added successfully") con1.close()</pre> <p><b><u>Note: Any other correct logic may be marked</u></b></p>	<p>½ mark for correct definition</p> <p>½ mark for correct example</p> <p>½ mark for importing correct module</p> <p>1 mark for correct connect()</p> <p>½ mark for correctly accepting the input</p> <p>1 ½ mark for correctly executing the query</p> <p>½ mark for correctly using commit()</p>	1+4=5

## SECTION E

34	<p>(i)</p> <pre>SELECT PName, BName FROM PRODUCT P, BRAND B WHERE P.BID=B.BID;</pre> <p>(ii)</p> <pre>DESC PRODUCT;</pre> <p>(iii)</p> <pre>SELECT BName, AVG(Rating) FROM PRODUCT P, BRAND B WHERE P.BID=B.BID GROUP BY BName HAVING BName='Medimix' OR BName='Dove';</pre> <p>(iv)</p> <pre>SELECT PName, UPrice, Rating FROM PRODUCT ORDER BY Rating DESC;</pre>	1 mark for each correct query	1*4=4
35	<pre>def Accept():     sid=int(input("Enter Student ID "))     sname=input("Enter Student Name ")     game= input("Enter name of game ")     res=input("Enter Result")     headings=["Student ID","Student Name", " Game Name", "Result"]     data=[sid,sname,game,res]     f=open('Result.csv','a',newline='')     csvwriter=csv.writer(f)     csvwriter.writerow(headings)     csvwriter.writerow(data)     f.close()</pre>	<p>½ mark for accepting data correctly</p> <p>½ mark for opening and closing file</p> <p>½ mark for writing headings</p> <p>½ mark for writing row</p>	4

	<pre>def wonCount():     f=open('Result.csv','r')     csvreader=csv.reader(f, delimiter=',')     head=list(csvreader)     print(head[0])     for x in head:         if x[3]=="WON":             print(x)     f.close()</pre>	<p>½ mark for opening and closing file</p> <p>½ mark for reader object</p> <p>½ mark for print heading</p> <p>½ mark for printing data</p>	
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