Sample Question Paper

Class: XII Session: 2023-24

Computer Science (083)

Time allowed: 3 Hours

Maximum Marks: 70

General Instructions:

- Please check this question paper contains 35 questions.
- The paper is divided into 4 Sections- A, B, C, D and E.
- Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.
- Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
- Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.
- Section D, consists of 3 questions (31 to 33). Each question carries 5 Marks.
- Section E, consists of 2 questions (34 to 35). Each question carries 4 Marks.
- All programming questions are to be answered using Python Language only.

Ques. No.		Question	Marks		
1.00		SECTION A			
1	State True or False:		1		
	"In a Python program, if a break statement is given in a nested loop, it terminates the execution of all loops in one go."				
2					
	has the value "Keshav". The	e attribute B of datatype char (20) has			
	value "Meenakshi". How n	nany characters are occupied by attribute A			
	and attribute B?				
	a. 20,6	b. 6,20			
	c. 9,6	d. 6,9			
3	What will be the output of the	e following statement:	1		
	print(3-2**2**3+99/1	.1)			
	a. 244	b. 244.0			
	c244.0	d. Error			
4	Select the correct output of th	le code:	1		

	<pre>s = "Python is fun" l = s.split() s_new = "-".join([l[0].upper(), l[1], l[2].capitalize()]) print(s_new) Options: a. PYTHON-IS-Fun b. PYTHON-IS-Fun c. Python-is-fun d. PYTHON-IS -Fun </pre>	1
5	In MYSQL database, if a table, Alpha has degree 5 and cardinality 3, and another table, Beta has degree 3 and cardinality 5, what will be the	1
	degree and cardinality of the Cartesian product of Alpha and Beta ?	
	a. 5,3 b. 8,15	
	c. 3,5 d. 15,8	
6	Riya wants to transfer pictures from her mobile phone to her laptop. She	1
	uses Bluetooth Technology to connect two devices. Which type of	
	network will be formed in this case?	
	a. PAN b. LAN	
	c. MAN d. WAN	
7	Which of the following will delete key-value pair for key = "Red" from a	1
	dictionary D1?	
	a. delete D1("Red")	
	b. del D1["Red"]	
	c. del.D1["Red"]	
	d. D1.del["Red"]	
8	Consider the statements given below and then choose the correct output	1
	from the given options:	
	pride="#G20 Presidency"	
	print(pride[-2:2:-2])	

	Options		
	a. ndsr b. ceieP0 c. ceieP d. yndsr		
9	Which of the following statement(s) would give an error during execution	1	
	of the following code?		
	tup = (20, 30, 40, 50, 80, 79)		
	print(tup) #Statement 1		
	<pre>print(tup[3]+50) #Statement 2</pre>		
	<pre>print(max(tup)) #Statement 3</pre>		
	tup[4]=80 #Statement 4		
	Options:		
	a. Statement 1		
	b. Statement 2		
	c. Statement 3		
	d. Statement 4		
10	What possible outputs(s) will be obtained when the following code is executed?	1	
	<pre>import random myNumber=random.randint(0,3) COLOR=["YELLOW", "WHITE", "BLACK", "RED"] for I in COLOR: for J in range(1,myNumber): print(I,end="*") print()</pre>		
	Options:		
	a.		
	RED*		
	WHITE*		
	BLACK*		

	RED*			
	b.			
	YELLOW*			
	WHITE*			
	BLACK*			
	RED*			
	с.			
	WHITE* WHITE*			
	YELLOW* YELLOW*			
	BLACK* BLACK*			
	RED* RED*			
	d.			
	YELLOW*			
	WHITE*WHITE*			
	BLACK* BLACK* BLACK*			
	RED* RED* RED* RED*			
11	Fill in the blank:	1		
	The modem at the sender's computer end acts as a			
	a. Model			
	b. Modulator			
	c. Demodulator			
	d. Convertor			
12	Consider the code given below:	1		
	b=100			
	<pre>def test(a): # missing statement</pre>			
	b=b+a			
	<pre>print(a,b) test(10)</pre>			
	print(b)			

Which of the following statements should be given in the blank for	
#Missing Statement, if the output produced is 110?	
Options:	
a. global a	
b. global b=100	
c. global b	
d. global a=100	
State whether the following statement is True or False:	1
An exception may be raised even if the program is syntactically correct.	
Which of the following statements is FALSE about keys in a relational	1
database?	
a. Any candidate key is eligible to become a primary key.	
b. A primary key uniquely identifies the tuples in a relation.	
c. A candidate key that is not a primary key is a foreign key.	
d. A foreign key is an attribute whose value is derived from the	
primary key of another relation.	
Fill in the blank:	1
In case of switching, before a communication starts, a	
dedicated path is identified between the sender and the receiver.	
Which of the following functions changes the position of file pointer and	1
returns its new position?	
a.flush()	
b.tell()	
c.seek()	
d.offset()	
Q17 and 18 are ASSERTION AND REASONING 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	
	 #Missing Statement, if the output produced is 110? Options: a. global a b. global b=100 c. global b d. global a=100 State whether the following statement is True or False: An exception may be raised even if the program is syntactically correct. Which of the following statements is FALSE about keys in a relational database? a. Any candidate key is eligible to become a primary key. b. A primary key uniquely identifies the tuples in a relation. c. A candidate key that is not a primary key is a foreign key. d. A foreign key is an attribute whose value is derived from the primary key of another relation. Fill in the blank: In case of

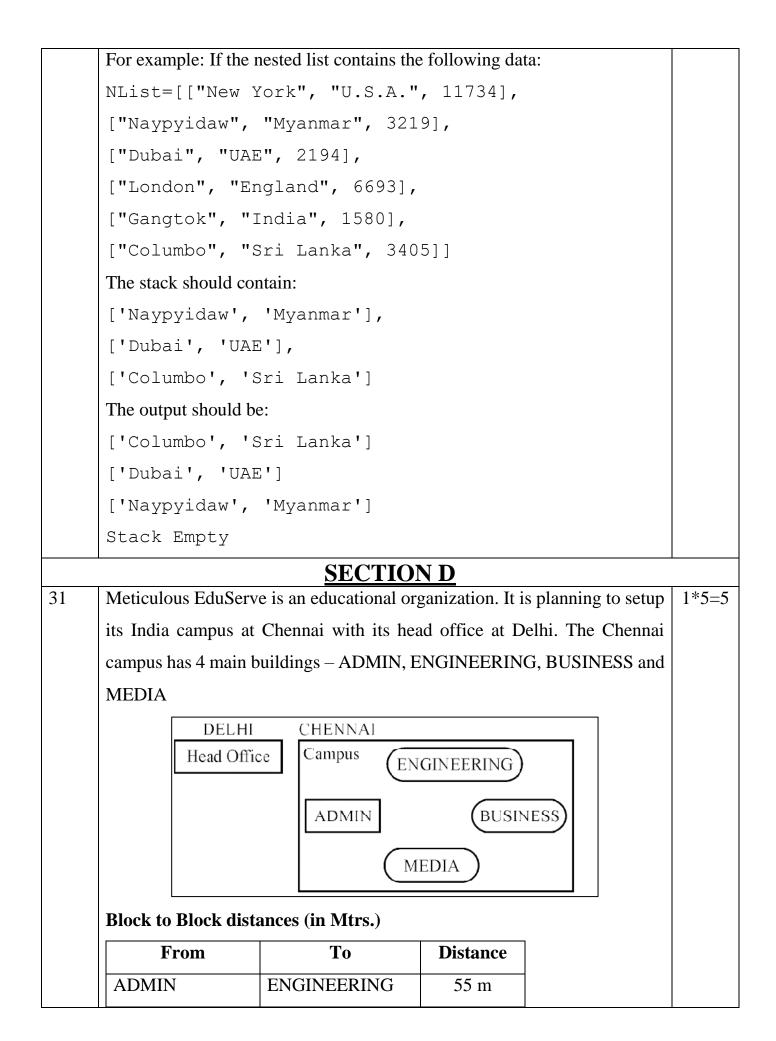
17	Assertion(A): List is an immutable data type	1
	Reasoning(R): When an attempt is made to update the value of an	
	immutable variable, the old variable is destroyed and a new variable is	
	created by the same name in memory.	
18	Assertion(A): Python standard library consists of number of modules.	1
	Reasoning(R): A function in a module is used to simplify the code and	
	avoids repetition.	
	SECTION B	
19	(i) Expand the following terms:	1+1=2
	POP3, URL	
	(ii) Give one difference between XML and HTML.	
20	The code given below accepts a number as an argument and returns the	2
	reverse number. Observe the following code carefully and rewrite it after	
	removing all syntax and logical errors. Underline all the corrections made.	
	define revNumber(num):	
	rev = 0	
	rem = 0	
	While num > 0:	
	rem ==num %10	
	rev = rev*10 + rem num = num//10	
	return rev	
	print(revNumber(1234))	
21	Write a function countNow (PLACES) in Python, that takes the	2
	dictionary, PLACES as an argument and displays the names (in	
	uppercase) of the places whose names are longer than 5 characters.	
	For example, Consider the following dictionary	
	PLACES={1:"Delhi",2:"London",3:"Paris",4:"New	
	York", 5: "Doha" }	
	The output should be:	
		L

NEW YORK OR Write a function, lenWords (STRING), that takes a string as an argument and returns a tuple containing length of each word of a string. For example, if the string is "Come let us have some fun", the uple will have (4, 3, 2, 4, 4, 3)	
Write a function, lenWords (STRING), that takes a string as an argument and returns a tuple containing length of each word of a string. For example, if the string is "Come let us have some fun", the uple will have (4, 3, 2, 4, 4, 3)	
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For example, if the string is "Come let us have some fun", the uple will have (4, 3, 2, 4, 4, 3)	
uple will have (4, 3, 2, 4, 4, 3)	
Predict the output of the following code:	2
<pre>S = "LOST" L = [10,21,33,4] D={} for I in range(len(S)): if I%2==0: D[L.pop()] = S[I] else: D[L.pop()] = I+3</pre>	
<pre>For K,V in D.items(): print(K,V,sep="*")</pre>	
Write the Python statement for each of the following tasks using BUILT-	1+1=2
N functions/methods only:	
 (i) To insert an element 200 at the third position, in the list L1. (ii) To check whether a string named, message ends with a full stop / period or not. 	
As. Shalini has just created a table named "Employee" containing	2
columns Ename, Department and Salary.	
After creating the table, she realized that she has forgotten to add a	
primary key column in the table. Help her in writing an SQL command to	
dd a primary key column EmpId of integer type to the table	
Employee.	
Thereafter, write the command to insert the following record in the table:	
	<pre>h = [10,21,33,4] h = {} for I in range(len(S)): if I%2==0: D[L.pop()] = S[I] else: D[L.pop()] = I+3 for K,V in D.items(): print(K,V,sep="*") //rite the Python statement for each of the following tasks using BUILT- N functions/methods only: (i) To insert an element 200 at the third position, in the list L1. (ii) To check whether a string named, message ends with a full stop/period or not. fs. Shalini has just created a table named "Employee" containing plumns Ename, Department and Salary. fter creating the table, she realized that she has forgotten to add a rimary key column in the table. Help her in writing an SQL command to dd a primary key column EmpId of integer type to the table mployee.</pre>

	EmpId-999	
	Ename-Shweta	
	Department: Production	
	Salary: 26900	
25	Predict the output of the following code:	2
	def Changer(P,Q=10): P=P/Q Q=P%Q return P	
	<pre>A=200 B=20 A=Changer(A,B) print(A,B, sep='\$') B=Changer(B)</pre>	
	<pre>print(A,B, sep='\$', end='###')</pre>	
	SECTION C	
26	Predict the output of the Python code given below:	3
	<pre>Text1="IND-23" Text2="" I=0 while I<len(text1): if="" text1[i]="">="0" and Text1[I]<="9": Val = int(Text1[I]) Val = Val + 1 Text2=Text2 + str(Val) elif Text1[I]>="A" and Text1[I]<="Z": Text2=Text2 + (Text1[I+1]) else:</len(text1):></pre>	
	Text2=Text2 + "*" I+=1 print(Text2)	
27	Consider the table CLUB given below and write the output of the SQL queries that follow.	1*3=3

CID	CNAME	AGE	GENDER	SPORTS	PAY	DOAPP
5246	AMRITA	35	FEMALE	CHESS	900	2006-
						03-27
4687	SHYAM	37	MALE	CRICKET	1300	2004-
						04-15
1245	MEENA	23	FEMALE	VOLLEYBALL	1000	2007-
						06-18
1622	AMRIT	28	MALE	KARATE	1000	2007-
						09-05
1256	AMINA	36	FEMALE	CHESS	1100	2003-
						08-15
1720	MANJU	33	FEMALE	KARATE	1250	2004-
						04-10
2321	VIRAT	35	MALE	CRICKET	1050	2005-
						04-30
(1	i) SELECT DOAPP< ii) SELE GENDER 1200;	CNAM "2006 CT CN = "M	E, SPORT -04-30" JAME, AGE JALE" AND	CT SPORTS) FF S FROM CLUB W AND CNAME LIF , PAY FROM CI PAY BETWEEN xt file, Alpha.tx	NHERE KE "%1 LUB W1 1000	NA"; HERE AND
(if (if	i) SELECT DOAPP< ii) SELE GENDER 1200; a function in	CNAM "2006 CT CN = "M	E, SPORT -04-30" JAME, AGE JALE" AND	S FROM CLUB W AND CNAME LIF , PAY FROM CI PAY BETWEEN xt file, Alpha.tx	NHERE KE "%1 LUB W1 1000	NA"; HERE AND
(if (if	i) SELECT DOAPP< ii) SELE GENDER 1200; a function in	CNAM "2006 CT CN = "M	E, SPORT -04-30" AME, AGE ALE" AND	S FROM CLUB W AND CNAME LIF , PAY FROM CI PAY BETWEEN xt file, Alpha.tx 'You'.	NHERE KE "%1 LUB W1 1000	NA"; HERE AND
(if (if Write a those lit	i) SELECT DOAPP< ii) SELE GENDER 1200; a function in ines which b	CNAM "2006 CT CN = "M Pythor pegin w	E, SPORT -04-30" JAME, AGE JALE" AND n to read a test ith the word OF	S FROM CLUB W AND CNAME LIF , PAY FROM CI PAY BETWEEN xt file, Alpha.tx 'You'.	THERE KE "%I LUB W 1000	NA"; HERE AND displays
(if (if Write a those line Write a	i) SELECT DOAPP< ii) SELE GENDER 1200; a function in ines which b	CNAM "2006 CT CN = "M Python begin w	E, SPORT -04-30" JAME, AGE ALE" AND n to read a ter ith the word OR Count () in	S FROM CLUB W AND CNAME LIF , PAY FROM CI PAY BETWEEN xtfile, Alpha.tx 'You'.	THERE KE "%I LUB W 1000	NA"; HERE AND displays
(if (if Write a those line Write a number	i) SELECT DOAPP< ii) SELE GENDER 1200; a function in ines which b a function, w r of vowels	CNAM "2006 CT CN = "M Pythor pegin w vowel(in the to	E, SPORT -04-30" JAME, AGE ALE" AND n to read a ter ith the word OR Count () in	S FROM CLUB W AND CNAME LIF , PAY FROM CI PAY BETWEEN xt file, Alpha.tx 'You'. Python that counts d Poem.txt.	THERE KE "%I LUB W 1000	NA"; HERE AND displays

	P_ID	Name	Desig	Salary	Allowance		
	P01	Rohit	Manager	89000	4800		
	P02	Kashish	Clerk	NULL	1600		
	P03	Mahesh	Superviser	48000	NULL		
	P04	Salil	Clerk	31000	1900		
	P05	Ravina	Superviser	NULL	2100		
	Based on the given table, write SQL queries for the following:						
	(i)	Increase the sala known.	ry by 5% of p	ersonals wl	hose allowance	is	
	(ii)	(ii) Display Name and Total Salary (sum of Salary and Allowance)					
		of all personals. The column heading 'Total Salary' should also be displayed.					
	(iii)	Delete the record of Supervisors who have salary greater than					
		25000					
30	A list, NI	List contains following record as list elements:				3	
	[City,	Country, distance from Delhi]					
	Each of t	these records are	nested togethe	er to form a	nested list. Write	te the	
	following	g user defined fur	nctions in Pyth	non to perfo	orm the specified	1	
	operation	ns on the stack na	med travel	•			
	(i)	Push_elemen	t(NList):	It takes the	nested list as an	l	
		argument and pu	ishes a list obj	ect contain	ing name of the	city	
		and country, wh	ich are not in	India and d	istance is less th	an	
		3500 km from E	elhi.				
	(ii)	Pop_element():	It pops the ob	jects from	the stack and dis	splays	
		them. Also, the	function shoul	d display "	Stack Empty" w	hen	
		there are no eler	nents in the st	ack.			
	I						



ADMIN	BUSINESS	90 m	
ADMIN	MEDIA	50 m	
ENGINEERING	BUSINESS	55 m	
ENGINEERING	MEDIA	50 m	
BUSINESS	MEDIA	45 m	
DELHI HEAD	CHENNAI	2175 km	
OFFICE	CAMPUS		

Number of computers in each of the blocks/Center is as follows:

ADMIN	110
ENGINEERING	75
BUSINESS	40
MEDIA	12
DELHI HEAD	20

a) Suggest and draw the cable layout to efficiently connect various blocks of buildings within the CHENNAI campus for connecting the digital devices.

b) Which network device will be used to connect computers in each block to form a local area network?

c) Which block, in Chennai Campus should be made the server? Justify your answer.

d) Which fast and very effective wireless transmission medium should preferably be used to connect the head office at DELHI with the campus in CHENNAI?

e) Suggest a device/software to be installed in the CHENNAICampus to take care of data security.

32	(i) Differentiate between r+ and w+ file modes in Python.	2+3=5
	(ii) Consider a file, SPORT.DAT, containing records of the following	
	structure:	

	1	
	[SportName, TeamName, No_Players]	
	Write a function, copyData(), that reads contents from the file	
	SPORT. DAT and copies the records with Sport name as "Basket	
	Ball" to the file named BASKET. DAT. The function should return the	
	total number of records copied to the file BASKET.DAT.	
	OR	
	(Option for part (ii) only)	
	A Binary file, CINEMA. DAT has the following structure:	
	{MNO:[MNAME, MTYPE]}	
	Where	
	MNO – Movie Number	
	MNAME – Movie Name	
	MTYPE is Movie Type	
	Write a user defined function, findType (mtype), that accepts mtype	
	as parameter and displays all the records from the binary file	
	CINEMA.DAT, that have the value of Movie Type as mtype.	
33	(i) Define the term Domain with respect to RDBMS. Give one	1+4=5
	example to support your answer.	
	(ii) Kabir wants to write a program in Python to insert the following	
	record in the table named Student in MYSQL database,	
	SCHOOL:	
	• rno(Roll number)- integer	
	• name(Name) - string	
	• DOB (Date of birth) – Date	
	• Fee - float	
	Note the following to establish connectivity between Python and	
	MySQL:	
	• Username - root	
	• Password - tiger	

f.	from the u	s of fields rno, iser. Help Kabii	r to write t	he prograi		•	
0		ser. Help Kabii		1 0	n in Pyth	on.	
	Consider t		SEC				
	Consider t			TION I			
г		the tables PROI	OUCT and	BRAND	given bel	ow:	1*4=4
1	Fable: PR	ODUCT					
	PCode	PName	UPrice	Rating	BID		
	P01	Shampoo	120	6	M03		
	P02	Toothpaste	54	8	M02		
	P03	Soap	25	7	M03		
	P04	Toothpaste	65	4	M04		
	P05	Soap	38	5	M05		
	P06	Shampoo	245	6	M05		

M04	Pepsodent
M05	Dove

M02

M03

Write SQL queries for the following:

Dant Kanti

Medimix

- (i) Display product name and brand name from the tablesPRODUCT and BRAND.
- (ii) Display the structure of the table PRODUCT.
- (iii) Display the average rating of Medimix and Dove brands
- (iv) Display the name, price, and rating of products in descending order of rating.

35	Vedansh is a Python programmer working in a school. For the Annual	4
	Sports Event, he has created a csv file named Result.csv, to store the	
	results of students in different sports events. The structure of	
	Result.csv is:	
	[St_Id, St_Name, Game_Name, Result]	
	Where	
	St_Id is Student ID (integer)	
	ST_name is Student Name (string)	
	Game_Name is name of game in which student is participating(string)	
	Result is result of the game whose value can be either 'Won', 'Lost'	
	or 'Tie'	
	For efficiently maintaining data of the event, Vedansh wants to write the	
	following user defined functions:	
	Accept() – to accept a record from the user and add it to the file	
	Result.csv. The column headings should also be added on top of the	
	csv file.	
	wonCount () $-$ to count the number of students who have won any	
	event.	
	As a Python expert, help him complete the task.	

Marking Scheme

<u>Class XII</u>

Computer Science (083)

Time Allowed: 3 hours

<u>Ques</u> <u>No</u>	Question and Answers	Distribution of Marks	Total Marks
	SECTION A		
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 del D1["Red"]	1 mark for correct answer	1
8	Option b	1 mark for correct answer	1

<u>MM: 70</u>

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

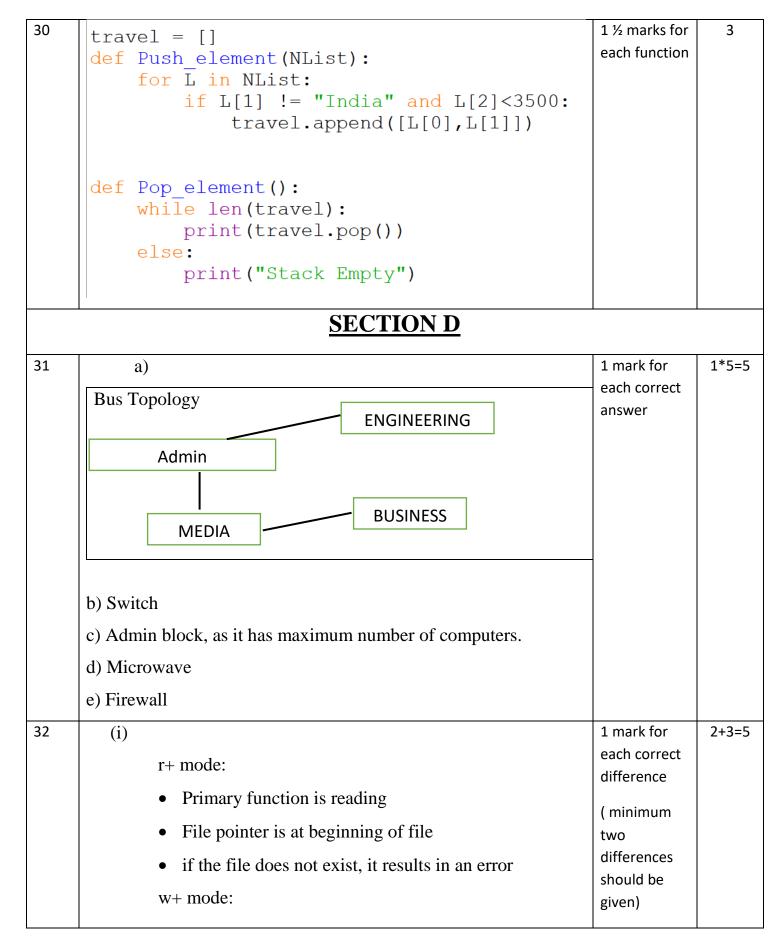
17	Option d	1 mark for	1
	A is false but R is True	correct	-
		answer	
18	Option b	1 mark for	1
		correct	
	Both A and R are true but R is not the correct explanation for A	answer	
	SECTION B		
19	(i)	½ mark for	1+1=2
		each correct	
	POP3 – Post Office Protocol 3	expansion	
	URL – Uniform Resource Locator		
	(ii)		
	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)	1 mark for	
		any one	
	• we can define our own tags and use them	correct difference	
	• Dynamic web development language – as it is used for	unterence	
	transporting and storing data	No mark to	
		be awarded if	
	• Case sensitive	only full form is given	
20	def revNumber(num):	½ mark for	2
	rev = 0	each	
	rem = 0		
	while num > 0:		

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

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

	(i) (i) (ii) CNAME AMINA	OUNT (DIST)	INCT SPORTS)	1 mark for each correct output	1*3=3
	(ii	i)			
	CNAME	AGE	PAY		
	AMRIT	28	1000		
	VIRAT	35	1050		
28	data for	j1 = ope a = fOb line in L=line if $L[0]$.split() =="You": int(line)	 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() <u>Note: Any other correct logic may be marked</u></pre>	 1 mark for correctly opening and closing the files ½ mark for correctly reading data 1 mark for correct loop and if statement ½ mark for displaying the output. 	
29	(i)	1 mark for each correct	1*3=3
	UPDATE Personal SET Salary=Salary*0.5	query	
	WHERE Allowance IS NOT NULL;		
	WHERE ALLOWANCE IS NOT NOTE,		
	(ii)		
	SELECT Name, Salary+Allowance AS		
	"Total Salary" FROM Personal;		
	(iii)		
	DELETE FROM Personal		
	WHERE Salary>25000		



```
primary function is writing
        •
        • if the file does not exist, it creates a new file.
        • If the file exists, previous data is overwritten
        • File pointer is at the beginning of file
  (ii)
                                                           ½ mark for
                                                           correctly
def copyData():
                                                           opening and
     fObj = open("SPORT.DAT", "rb")
     fObj1 = open("BASKET.DAT", "wb")
                                                           closing files
     cnt=0
                                                           ½ mark for
     try:
                                                           correct try
          while True:
                                                           and except
                data = pickle.load(fObj)
                                                           block
                print(data)
                if data[0] == "Basket Ball":
                                                           ½ mark for
                     pickle.dump(data,fObj1)
                                                           correct loop
                     cnt+=1
     except:
                                                           1 mark for
           fObj.close()
                                                           correctly
           fObj1.close()
                                                           copying data
     return cnt
                                                           ½ mark for
                                                           correct
                                                           return
                                                           statement
                           OR
                   (Only for option ii)
                                                           ½ mark for
def Searchtype(mtype):
                                                           correctly
    fObj = open("CINEMA.DAT", "rb")
                                                           opening and
    try:
                                                           closing files
         while True:
              data = pickle.load(fObj)
                                                           ½ mark for
              if data[2] == mtype:
                                                           correct try
                   print("Movie number:", data[0])
                                                           and except
                   print("Movie Name:", data[1])
                                                           block
                   print("Movie Type:",data[2])
    except EOFError:
                                                           ½ mark for
         fObj.close()
                                                           correct loop
```

33	Note: Any other correct logic may be marked (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	½ mark for correct if statement1 mark for correctly displaying data½ mark for correct definition½ mark for correct example	1+4=5
	<pre>(ii) 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() Note: Any other correct logic may be marked</pre>	½ mark forimportingcorrectmodule1 mark forcorrectconnect()½ mark forcorrectlyaccepting theinput1 ½ mark forcorrectlyexecuting thequery½ mark forcorrectlyusingcommit()	

SECTION E

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

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