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			
110.	I	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		database, an attribute A of datatype varchar (20)	1			
	has the value "Kesha	av". The attribute B of datatype char (20) has				
	value"Meenakshi"	. How many 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 outp	ut of the following statement:	1			
	print(3-2**2**3	3+99/11)				
	a. 244	b. 244.0				
	c244.0	d. Error				
4	Select the correct outp	put of the code:	1			

[1]





	<pre>s = "Python is fun" l = s.split() </pre>	
	<pre>s_new = "-".join([1[0].upper(), 1[1], 1[2].capitalize()]) print(s_new)</pre>	
	Options:	
	 a. PYTHON-IS-Fun b. PYTHON-is-Fun c. Python-is-fun d. PYTHON-IS -Fun 	
5	In MYSQL database, if a table, Alpha has degree 5 and cardinality 3, and	1
	another table, Beta has degree 3 and cardinality 5, what will be the	
	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"	
	<pre>print(pride[-2:2:-2])</pre>	



	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>	
	<pre>tup[4]=80 #Statement 4</pre>	
	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	1
	executed?	
	<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*				
	c.				
	WHITE* WHITE*				
	YELLOW* YELLOW*				
	BLACK* BLACK*				
	RED* RED*				
	d.				
	YELLOW*				
	WHITE*WHITE*				
	BLACK* BLACK* BLACK*				
	RED* 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	
13	State whether the following statement is True or False:	1
	An exception may be raised even if the program is syntactically correct.	
14	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.	
15	Fill in the blank:	1
	In case of switching, before a communication starts, a	
	dedicated path is identified between the sender and the receiver.	
16	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	
	[5]	

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" }	
l	The output should be:	

[6]



LONDON			
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			
tuple 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>print(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		
IN 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. 			
Ms. 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			
add a primary key column EmpId of integer type to the table			
Employee.			
Thereafter, write the command to insert the following record in the table:			
	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 tuple will have (4, 3, 2, 4, 4, 3) Predict the output of the following code: 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 for K,V in D.items(): print(K,V,sep="*") Write the Python statement for each of the following tasks using BUILT- IN 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. Ms. Shalini has just created a table named "Employee" containing 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 add a primary key column EmpId of integer type to the table Employee.		





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

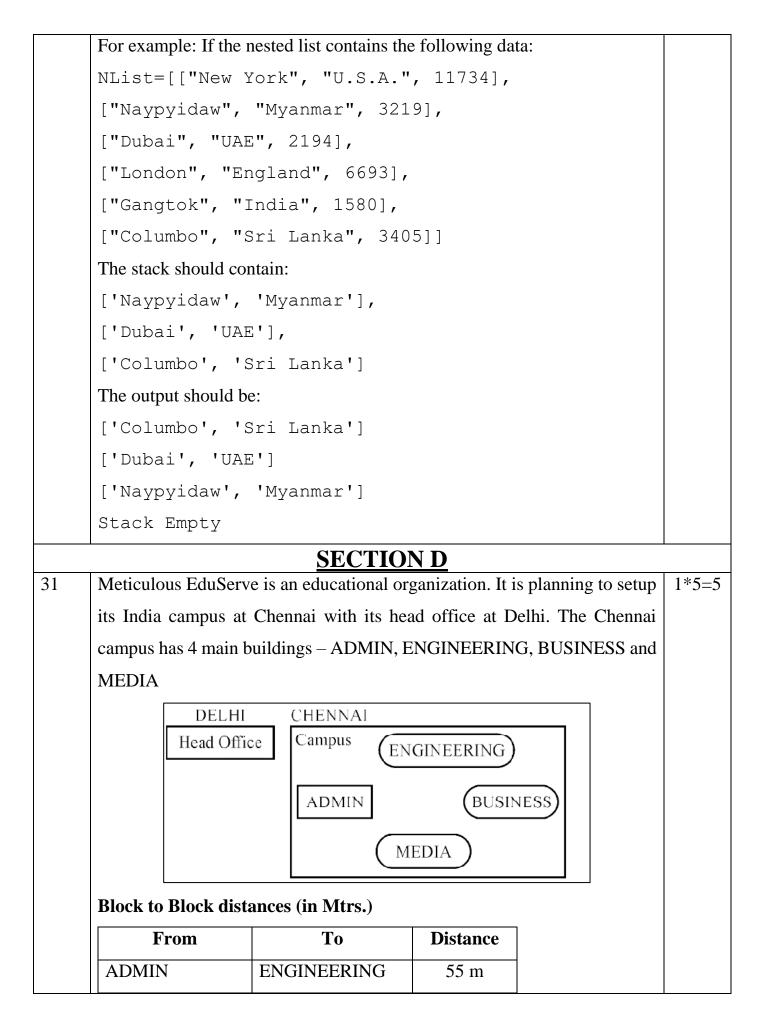


	CID	CNAME	AGE	GENDER	SPORTS	PAY	DOAPP	
	5246	AMRITA	35	FEMALE	CHESS	900	2006-	
							03-27	
	4687	SHYAM	37	MALE	CRICKET	1300	2004-	
							04-15	
	1245	MEENA	23	FEMALE	VOLLEYBALL	1000	2007-	
							06-18	
	1622	AMRIT	28	MALE	KARATE	1000	2007-	
							09-05	
	1256	AMINA	36	FEMALE	CHESS	1100	2003-	
							08-15	
	1720	MANJU	33	FEMALE	KARATE	1250	2004-	
							04-10	
	2321	VIRAT	35	MALE	CRICKET	1050	2005-	
							04-30	
	(i) SELECT COUNT(DISTINCT SPORTS) FROM CLUB;							
	(i	i) SELECT	CNAM	E, SPORTS	S FROM CLUB V	VHERE		
	DOAPP<"2006-04-30" AND CNAME LIKE "%NA";							
	(iii) SELECT CNAME, AGE, PAY FROM CLUB WHERE							
		GENDER	= "M	ALE" AND	PAY BETWEEN	1000	AND	
		1200;						
28	Write a	a function in	Pythor	n to read a te	xt file, Alpha.tx	t and	displays	3
	those li	ines which b	begin w	ith the word	'You'.			
				OR	2			
	Write a	a function, v	vowel(Count() in	Python that counts	s and di	splays the	
	numbe	r of vowels	in the te	ext file name	d Poem.txt.			
29	Consid	er the table	Perso	nal given b	elow:			1*3=3
		e: Person		-				



	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 or	n the given table,	write SQL qu	eries for the	e following:		
	(i) Increase the salary by 5% of personals whose allowance is known.						
	(ii) Display Name and Total Salary (sum of Salary and Allowance)of all personals. The column heading 'Total Salary' should also						
	(iii)	be displayed. Delete the record 25000	rd of Superviso	ors who hav	ve salary greater	than	
30		List contains fo	C				3
		Country, d				to the	
		these records are	C C				
	following user defined functions in Python to perform the specified operations on the stack named travel.						
	(i) Push element (NList): It takes the nested list as an						
	argument and pushes a list object containing name of the city						
	and country, which are not in India and distance is less than						
	3500 km from Delhi.						
	(ii) Pop_element (): It pops the objects from the stack and displays						
		them. Also, the	function shoul	ld display "	Stack Empty" w	vhen	
		there are no ele	ments in the st	ack.			
			[10]				







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 blocksof buildings within the CHENNAI campus for connecting the digitaldevices.

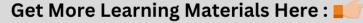
b) Which network device will be used to connect computers in each block to form a local area network?

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.

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



32





	[Coonthome Heemhere No Dierres]	
	[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	

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	The value	s of fields rno.	, name,	DOB and	fee has	to be accepte	d
		ıser. Help Kabiı				-	
		1		TION I			
(Consider	the tables PROI				low:	1*4
]	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		
_	Table: BR	BName					
	BID M02	BName Dant Kant	ti				
	BID M02 M03	BName Dant Kant Medimix					
	BID M02	BName Dant Kant					
	BID M02 M03 M04	BNameDant KantMedimixPepsodent					
	BID M02 M03 M04 M05	BNameDant KantMedimixPepsodent	t	g:			
	BID M02 M03 M04 M05 Write SQI	BNameDant KantMedimixPepsodentDove	t e following	-	me from t	the tables	
	BID M02 M03 M04 M05 Write SQ (i)	BNameDant KantMedimixPepsodentDove	t e following t name and	l brand na	me from t	the tables	
	BID M02 M03 M04 M05 Write SQ (i)	BNameDant KantMedimixPepsodentDoveL queries for theDisplay product	e following name and BRAND.	l brand na			
	BID M02 M03 M04 M05 Write SQI (i)	BNameDant KantMedimixPepsodentDoveL queries for theDisplay productPRODUCT and	e following t name and BRAND. cture of th	l brand na le table PF	ODUCT		
	BID M02 M03 M04 M05 Write SQ (i)	BNameDant KantMedimixPepsodentDoveL queries for theDisplay productPRODUCT andDisplay the stru	e following t name and BRAND. cture of th rage rating	l brand na le table PR g of Medir	CODUCT	Oove brands	ng



35	Vedansh is a Python programmer working in a school. For the Annual	4
55	vedansii is a Fython programmer working in a school. For the Annuar	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.	





[15]



Marking Scheme

Class XII

Computer Science (083)

Time Allowed: 3 hours

<u>Ques</u> <u>No</u>	Question and Answers	Distribution of Marks	Total Marks
	SECTION A		I
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

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<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
	Modulator	correct answer	
12	Option c	1 mark for	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
10		each correct	1.1.2
	POP3 – Post Office Protocol 3	expansion	
		•	
	URL – Uniform Resource Locator		
	(ii)		
	UTNAL (Harrow town town town to be low own and)		
	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	
	• Dynamic web development language – as it is used for	difference	
	transporting and storing data	No mark to	
		be awarded if	
	Case sensitive	only full form	
		is given	
20	<pre>def revNumber(num):</pre>	½ mark for	2
	rev = 0	each	
	rem = 0		
	while num > 0:		

CLICK HERE

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	rem <u>=n</u> um %10	correction	
	rev = rev*10 + rem	made	
	num = num//10		
	return rev		
	<pre>print(revNumber(1234))</pre>		
21		½ mark for	2
	DIACEC-(1."Dolbi" 2."London" 2."Donia" (."Nou Vonk" 5."Duboi")	correct	
	PLACES={1:"Delhi",2:"London",3:"Paris",4:"New York",5:"Dubai"}	function	
	def countNow(PLACES):	header	
	<pre>for place in PLACES.values():</pre>	½ mark for	
	<pre>if len(place)>5:</pre>	correct loop	
	print(place.upper())	½ mark for	
		correct if	
	countNow(PLACES)	statement	
		½ mark for	
	OR	displaying	
		the output	
	<pre>def lenWords(STRING): T=() L=STRING.split() for word in L:</pre>	½ mark for correct function header½ mark for using cplit()	
	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	



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

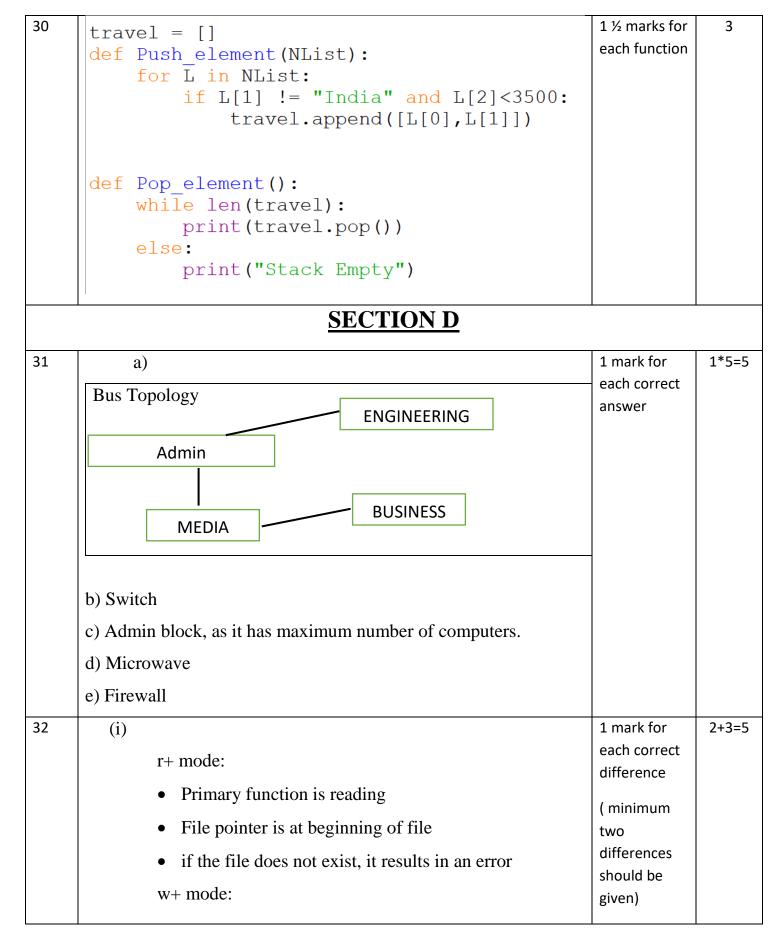
						1 mark for	1*3=3
	(i)					each correct	
						output	
	COU	NT (DISTI	NCT SI	PORTS)			
	4						
	(ii)						
	CNAME		SPOR	TS			
	AMINA		CHES	S			
	(iii)		_				
	CNAME	AGE		PAY			
	AMRIT	28		1000			
	VIRAT	35		1050			
28	def test(<u>\.</u>				 1 mark for	3
			n ("]]	lpha tyt	<u>и</u> п ₂₂ и)	correctly	
	_	_		lpha.txt		opening and	
		_		adlines()	closing files	
		ine in				½ mark for	
		=line.				correctly	
		f L[0]				reading data	
	fobi1		nt(li	llie)			
		.close	()			1 mark for	
						correct loop and if	
						statement	
			OR				
						½ mark for	
						displaying	
						data	

[6]

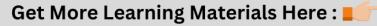


	<pre>def vowelCount(): fObj = open("Alpha.txt", "r") data = str(fObj.read()) cnt=0 for ch in data: if ch in "aeiouAEIOU": cnt=cnt+1 print(cnt) fObj.close() <u>Note: Any other correct logic may be marked</u></pre>	 1 mark for correctly opening and closing the files ½ mark for correctly reading data 1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



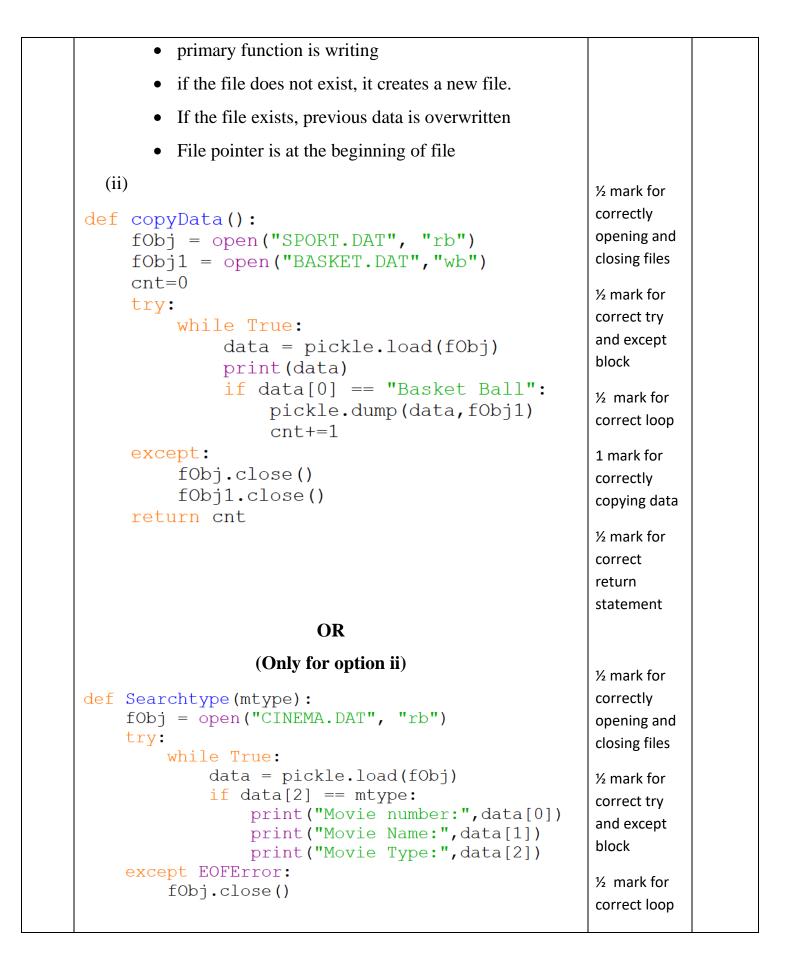


[8]



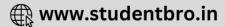






[9]



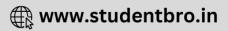


	Note: Any other correct logic may be marked	 ½ mark for correct if statement 1 mark for correctly displaying data 	
33	 (i) Domain is a set of values from which an attribute can take value in each row. For example, roll no field can have only integer values and so its domain is a set of integer values 	 ½ mark for correct definition ½ 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>	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()	

[10]

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SECTION E

34	(i)	1 mark for	1*4=4
	SELECT PName, BName FROM PRODUCT P,	each correct	
	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;		
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>	 ½ mark for accepting data correctly ½ mark for opening and closing file ½ mark for writing headings ½ mark for writing row 	4





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)	
f.close()	print heading
	½ mark for
	printing data

[12]



