CBSE Additional Practice 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 5 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 2 questions (31 to 32). Each question carries 4 Marks.
- Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.

Q No.	Questions Section-A (18 Marks)	Marks
1	 Which of the following is an invalid identifier to be used in Python? a. per%marks bfor c. While d. true 	1
2	 What is the correct way to add an element to the end of a list in Python? a. list.add(element) b. list.append(element) c. list.insert(element) d. list.extend(element) 	1
3	<pre>What will be the output of print("Welcome To My Blog"[2:6] + "Welcome To My Blog"[5:9]) a. Lcomme b. lcomme T c. lcomme To d. lcomme</pre>	1
4	 Which of the following statements is false? a. A try-except block can have more than one except statement b. One block of except statement cannot handle multiple exceptions c. The finally block is always executed d. When 1 == "1" is executed, no exception is raised 	1
5	Which of the following statement(s) would give an error during the execution of the following code?R = {'pno':52,'pname':'Virat', 'expert':['Badminton','Tennis'],'score':(77,44)} print(R)#Statement 1	1

	R['expert'][0]='Cricket' R['score'][0]=50 R['pno']=50	#Statement 2 #Statement 3 #Statement 4	
	 a. Statement 1 b. Statement 2 c. Statement 3 d. Statement 4 		
6	Which pickle module met binary file?	hod is used to write a Python object to a	1
	 a. save() b. serialize() c. store() d. dump() 		
7	Given the following dictio dict_student = {"rno" dict_marks = {"Accts"	naries : "53", "name" : 'Rajveer Singh'} : 87, "English" : 65}	1
	Which statement will a dict_student?	append the contents of dict_marks in	
	 a. dict_student + dict_mark b. dict_student.add(dict_m c. dict_student.merge(dict_d. dict_student.update(dict_d. di	ks harks) _marks) t_marks)	
8	Which of the following is Python?	s not a component of the math module in	1
	 a. ceil() b. mean() c. fabs() d. pi 		
9	What will be the output of L=["One , Two", "Three' print(len(L)/2*len(L[0]	the following code? ', "Four"]]))	1
	a. 6.5 b. 13 c. 13.5 d. 6.0		
10	Expand the following term (i) PPP (ii) VoIP	IS:	1
11	Which SQL operator perfo	orms pattern matching?	1
	a. BETWEEN operator b. LIKE operator		
	\mathbf{d} . =		

12	Which Python function is used for displaying only one result set from SQL table in a database?	1
	 a. fetch1() b. fetchno() c. fetchall() d. fetchone() 	
13	Which of the following file opening mode in Python, generates an error if the file does not exist?	1
	a. a b. r c. w d. w+	
14	The correct syntax of seek() is: a. file_object.seek(offset [, reference_point]) b. seek(offset [, reference_point]) c. seek(offset, file_object) d. seek.file_object(offset)	1
15	Which of the following statements is false?	1
	 a. SMTP and POP protocols are used in email communication. b. URL of a page is not always the same as its domain name. c. HTTPS is safer than HTTP. d. Interlinking of collection of webpages is called Internet. 	
16	Fill in the blank: protocol provides access to services hosted on a remote computer.	1
	 a. FTP b. PPP c. Telnet d. SMTP 	
	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	
17	Assertion (A): For changes made to a variable defined within a function to be visible outside the function, it should be declared as global. Reasoning (R): Variables defined within a function are local to that function by default, unless explicitly specified with the global keyword.	1
18	Assertion (A): A binary file in python is used to store collection objects like lists and dictionaries that can be later retrieved in their original form using pickle module.	1

	Reasoning (A): Binary files are just like normal text files and can be read using a text editor like Notepad.	
Q No.	Questions Section-B (14 Marks)	Marks
19	Write two advantages and two disadvantages of circuit switching.	2
	Differentiate between Web server and web browser. Write the names of any two web browsers.	
20	<pre>Rewrite the following code in Python after removing all the syntax errors. Underline each correction done in the code. Def first(): num1, num2 = 10, 45 While num1 % num2 == 0 num1+= 30 num2+= 50 Else: print('hello')</pre>	2
21	Write a function dispBook(BOOKS) in Python, that takes a dictionary BOOKS as an argument and displays the names in uppercase of those books whose name starts with a consonant.	2
	For example, Consider the following dictionary	
	<pre>BOOKS = {1:"Python", 2:"Internet Fundamentals ", 3:"Networking ", 4:"Oracle sets", 5:"Understanding HTML"}</pre>	
	The output should be: PYTHON NETWORKING	
	Write a Python Program containing a function FindWord(STRING, SEARCH), that accepts two arguments : STRING and SEARCH, and prints the count of occurrence of SEARCH in STRING. Write appropriate statements to call the function.	
	For example, if STRING = "Learning history helps to know about history with interest in history" and SEARCH = 'history', the function should display The word history occurs 3 times.	
22	What will be the output of the following code?	2
	<pre>L = [5,10,15,1] G = 4 def Change(X): global G N=len(X) for i in range(N): X[i] += G</pre>	
	Change(L)	
	<pre>for i in L: print(i,end='\$')</pre>	

23	Write a suita using built-in i To dele	ble Py function te an e	thon statement ons/methods of element Mumb ords in a string	nt for ea only: oai:50 fro S in the	ach c om E	of the follo Dictionary I	owing tasks D.	2
		Juy we	() () R	2 1011	n or a nst		
	Write a Pyth	on Pro	gram to displ	lay alter	nate	characters	of a string	
	my_str.			~ .				
	For example,	if my_	str = "Comp	uter Scie	ence'	1		
	The output sh	iould be	e Cmue cec					
24	Differentiate used with the	betwee LIKE	en % (percent operator in SC	tage) and QL with DR	d _(t appro	inderscore opriate exa) characters imples.	2
	Differentiate appropriate et	betwee xample	en DROP and es.	DELET	TE co	mmands i	n SQL with	
25	Consider the	follow	ving two con	nmands	with	reference	to a table,	2
	named Emplo	oyee h	aving a colum	in named	1 De	partmen	t:	
	(a) Select	count	(Departmen ⁻	t) fro	m En	<pre>iployee;</pre>		
	(b) Select	count	(*) from E	mploye	e;			
	TO 1					1.		
	If these two c	ommar	nds are produc	cing diffe	erent	results,		
	(i) what may (ii) Which co	/ be the mmand	t (a) or (b) mi	011? ght he gi	ivina	a higher y	alue?	
		mmanc			IVIIIg	a mgner v		
Q No			Ques	stions				Marks
			Section-C	(15 Ma	rks)			
-								
26	(a) Consid	er the t	able, BOOK an	d MEMBI	ER gi	ven below	:	3
26	(a) Consid	er the t	able, BOOK an	d MEMBI	ER gi	ven below	:	3
26	(a) Consid	er the t	able, BOOK an	Id MEMBI	ER gi	ven below	:	3
26	(a) Consid TABLE : BOOI	er the t	able, BOOK an	Id MEMBI	ER gi	ven below	:	3
26	(a) Consid TABLE : BOOI CODE F101	er the t K BNAM The p Easy	ME Python	Id MEMBI	ER gi TYP Ficti Proc	ven below E on	:	3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101	er the t S BNAM The p Easy Juma	ABLE, BOOK an ME priest Python n Ji	Id MEMBI	ER gi TYP Ficti Proç Thril	ven below E on gramming ller	:	3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102	er the t S BNAM The p Easy Juma Untole	ABLE, BOOK an ME Driest Python n Ji d Story	Id MEMBI	ER gi TYP Ficti Proç Thril Ficti	ven below PE on gramming ller on	:	3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102	er the t BNAM The p Easy Juma Untole War S	able, BOOK an ME priest Python n Ji d Story Stories	Id MEMBI	ER gi TYP Ficti Proç Thril Ficti Com	ven below PE on gramming ller on nic	:	3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB	er the t K BNAM The p Easy Juma Untole War S	able, BOOK an ME priest Python n Ji d Story Stories	Id MEMBI	ER gi TYP Ficti Proç Thril Ficti Corr	ven below PE on gramming ller on nic	:	3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB	er the t Ser the t BNAM The p Easy Juma Untole War S SER NO	ME ME Python n Ji d Story Stories		ER gi TYP Ficti Prog Thril Ficti Com	ven below E on gramming ller on nic		3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M M	er the t K BNAM The p Easy Juma Untole War S ER NO 101	ABLE, BOOK an ME Priest Python n Ji d Story Stories MNAME SNEH SINH/	CODI	ER gi TYP Ficti Proç Thril Ficti Corr E IS 2	ven below PE on gramming ller on hic SSUEDATE 022-10-13		3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M M M	er the t K BNAM The p Easy Juma Untole War S SER NO 101 103	ABIE, BOOK an ME Priest Python n Ji d Story Stories MNAME SNEH SINH SARTHAK	CODI CODI L102 F102	ER gi TYP Ficti Proç Thril Ficti Com E IS 2 2	ven below PE on gramming ller on hic SSUEDATE 022-10-13 021-02-23		3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M M M	er the t Service Service Serv	ABIE, BOOK an ME Python n Ji d Story Stories MNAME SNEH SINH/ SARTHAK SARA KHAN	CODI CODI L102 F102 C101	ER gi TYP Ficti Proç Thril Ficti Corr E IS 2 2 2 2 2	ven below PE on gramming ller on nic SSUEDATE 022-10-13 021-02-23 022-06-12		3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M M M M M	er the t Ser the t BNAM The p Easy Juma Untole War S SER NO 101 103 102 the out	ABIE, BOOK an ME Python n Ji d Story Stories MNAME SNEH SINH/ SARTHAK SARA KHAN	CODI CODI L102 F102 C101	ER gi TYP Ficti Proc Thril Ficti Corr E IS 2 2 2 2 2 2 2 2	ven below PE on gramming ller on hic SSUEDATE 022-10-13 022-06-12 hent?		3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M M M M M M M M M M	er the t Ser the t BNAM The p Easy Juma Untole War S SER NO 101 103 102 the out ROM B	ABIE, BOOK an ME Python n Ji d Story Stories MNAME SNEH SINHA SARTHAK SARA KHAN put of the foll BOOK NATURA	CODI CODI L102 F102 C101 owing st	ER gi TYP Ficti Prog Thril Ficti Corr E IS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ven below PE on gramming ller on nic SSUEDATE 022-10-13 022-06-12 022-06-12 nent? MBER;		3
26	(a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M M M M M What will be SELECT * F	er the t Ser the t BNAM The p Easy Juma Untole War S SER NO 101 103 102 the out ROM B	AE Python n Ji d Story Stories MNAME SNEH SINHA SARTHAK SARA KHAN put of the foll SOOK NATURA	CODI CODI L102 F102 C101 owing st L JOIN	ER gi TYP Ficti Proc Thril Ficti Corr E IS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ven below PE on gramming ller on hic SSUEDATE 022-10-13 021-02-23 022-06-12 hent? MBER;		3
26	 (a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M	er the t Server Server	ABLE, BOOK an ME priest Python n Ji d Story Stories MNAME SARTHAK SARTHAK SARA KHAN put of the foll BOOK NATURA of the queries	CODI CODI A L102 F102 C101 owing st AL JOIN (i) to (i)	ER gi TYP Ficti Proç Thril Ficti Com E 18 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ven below PE on gramming ller on nic SSUEDATE 022-10-13 021-02-23 022-06-12 nent? MBER; sed on the	table	3
26	 (a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M <pm< p=""> M M M <</pm<>	er the t BNAM The p Easy Juma Untole War S BER NO 101 103 102 the out ROM B output 010yee	ABLE, BOOK an ME Python n Ji d Story Stories MNAME SNEH SINH/ SARTHAK SARA KHAN put of the foll SOOK NATURA of the queries	CODI CODI L L102 F102 C101 owing st L JOIN (i) to (i	ER gi TYP Ficti Proc Thril Ficti Corr E IS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ven below PE on gramming ller on nic SSUEDATE 022-10-13 022-06-12 nent? MBER; sed on the	table	3
26	 (a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M 	er the t BNAM The p Easy Juma Untole War S BER NO 101 103 102 the out ROM B output oloyee an	ABLE, BOOK an ME Python n Ji d Story Stories MNAME SNEH SINHA SARTHAK SARA KHAN put of the foll BOOK NATURA of the queries DOB 1990-07-12	CODI CODI L L102 F102 C101 Owing st L JOIN (i) to (i) DOJ 2015-01	ER gi TYP Ficti Prog Thril Ficti Corr E IS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ven below PE on gramming ller on nic SSUEDATE 022-10-13 022-06-12 nent? MBER; sed on the Salary 150000	table	3
26	 (a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C101 F102 C102 Table: MEMB M M<th>er the t</th><th>ABLE, BOOK an ME priest Python n Ji d Story Stories MNAME SARTHAK SARTHAK SARA KHAN put of the foll BOOK NATURA of the queries DOB 1990-07-12 1992-06-21</th><th>CODI A L102 F102 C101 owing st A J0IN (i) to (i) 00J 2015-01 2015-02</th><th>ER gi TYP Ficti Proc Thril Ficti Com E 13 2 2 2 2 2 2 2 2 2 2 2 2 2</th><th>ven below PE on gramming ller on nic SSUEDATE 022-10-13 021-02-23 022-06-12 nent? MBER; sed on the Salary 150000 125000</th><th>table</th><th>3</th>	er the t	ABLE, BOOK an ME priest Python n Ji d Story Stories MNAME SARTHAK SARTHAK SARA KHAN put of the foll BOOK NATURA of the queries DOB 1990-07-12 1992-06-21	CODI A L102 F102 C101 owing st A J0IN (i) to (i) 00J 2015-01 2015-02	ER gi TYP Ficti Proc Thril Ficti Com E 13 2 2 2 2 2 2 2 2 2 2 2 2 2	ven below PE on gramming ller on nic SSUEDATE 022-10-13 021-02-23 022-06-12 nent? MBER; sed on the Salary 150000 125000	table	3
26	 (a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C102 Table: MEMB M 	er the t	ABLE, BOOK an ME Python n Ji d Story Stories MNAME SNEH SINH/ SARTHAK SARTHAK SARA KHAN put of the foll BOOK NATURA of the queries DOB 1990-07-12 1992-06-21 1996-11-15	d MEMBI	ER gi TYP Ficti Proc Thril Ficti Corr E 13 2 2 2 2 2 2 2 2 2 2 2 2 2	ven below PE on gramming ller on nic SSUEDATE 022-10-13 022-06-12 nent? MBER; sed on the Salary 150000 125000 135000	: table Project P01 P04 P01	3
26	 (a) Consid TABLE : BOOI CODE F101 L102 C101 F102 C101 F102 C102 Table: MEMB M M<th>er the t</th><th>AE Python n Ji d Story Stories MNAME SNEH SINHA SARTHAK SARTHAK SARA KHAN put of the foll SOOK NATURA of the queries DOB 1990-07-12 1992-06-21 1992-06-21 1991-10-25</th><th>d MEMBI</th><th>ER gi TYP Ficti Proc Thril Ficti Com E $$ 18 2 2 2 2 2 2 2 2 2 2 2 2 2</th><th>ven below PE on gramming ller on nic SSUEDATE 022-10-13 021-02-23 022-06-12 nent? MBER; sed on the Salary 150000 125000 135000</th><th>: table Project P01 P04 P01 P02</th><th>3</th>	er the t	AE Python n Ji d Story Stories MNAME SNEH SINHA SARTHAK SARTHAK SARA KHAN put of the foll SOOK NATURA of the queries DOB 1990-07-12 1992-06-21 1992-06-21 1991-10-25	d MEMBI	ER gi TYP Ficti Proc Thril Ficti Com E $ $ 18 2 2 2 2 2 2 2 2 2 2 2 2 2	ven below PE on gramming ller on nic SSUEDATE 022-10-13 021-02-23 022-06-12 nent? MBER; sed on the Salary 150000 125000 135000	: table Project P01 P04 P01 P02	3

	i SELECT NAME, PROJECT FROM ii SELECT NAME, SALARY FROM iii SELECT NAME, DOJ FROM E 100000 AND 200000; iv SELECT * FROM EMPLOYEE W	M EMPLOYEE OF EMPLOYEE WHE EMPLOYEE WHEI HERE PROJECT	RDER BY NA RE NAME LI RE SALARY = 'P01';	ME DESC; KE 'A%'; BETWEEN	
27	(a) Consider the following table Table: FACULTY FID FNAME LNAME F01 Anishma Garg F03 Bhumi Goel F04 Neha Verma F05 Meenu Sharma	es – FACULTY : JOINDATE 2000-12-14 2001-08-10 2000-05-17 2006-07-11	and COURS SALARY 32000 15000 27000 30000	ES :	3
	Table: COURSESC_IDFIDCNAMEC11F01Grid ComC12F04PythonC13F03C++C14F04ComputerC15F01HTMLC16F05Data Scie	Fl puting 40 17 80 Network 15 12 12 nce N	EES 0000 7000 000 5000 2000 ULL		
	<pre>What will be the output of the follo i SELECT FID, MIN(FEES), M FID; ii SELECT AVG(SALARY) FROM iii SELECT FNAME, CNAME FRO F.FID=C.FID AND COURSES. iv SELECT FNAME, CNAME, FE WHERE F.FID = C.FID AND</pre>	owing statemen AX(FEES) FROM FACULTY WHERI M FACULTY F, FID='F04'; ES FROM FACU FEE>15000;	nt? M COURSES (E FNAME LI , COURSES JLTY F , CO	GROUP BY KE '%a'; C WHERE DURSES C	
28	 (b) Write the name of the comtable in a database. Write a function COUNT() in F 'Gratitude.txt' and display to line Example: If the file content is as for Gratitude is a humble heart A timeless gift that nurtures 	mand to display by thon to rea he count of the billows: 's radiant glow, and bestows.	ay the struc d from a e letter 'e'	eture of a text file in each	3
	It's the appreciation for the In moments big and small, The COUNT() function should dis Line 1 : 3 Line 2 : 4 Line 3 : 6 Line 4 : 1 O Write a function Start_with_I(text file 'Gratitude.txt' and the Example: If the file content is as for Gratitude is a humble heart A timeless gift that nurtures It's the appreciation for the In momente big and amaly	PR () in Python, hen display line ollows: 's radiant glow, and bestows.	wn, t as: which shou es starting w	ıld read a with 'I'.	

	Then the outp	but should t	be					
	It's the a	ppreciat	ion tor	the lo	ove we:	re shown	د	
	In moments	s big and	small,	it's t	ruly k	nown.		
29	Navdeep crea marks secure After the created table.	ttes a table d by studen ation of the	RESULT w ts in Sem1 e table, he	ith a set , Sem2, entered	of record Sem3, ar data of	ls to maintand their divi 7 students	in the isions.	3
	ADNO	ROLLNO	SNAME	SEM1	SEM2	DIVISION		
	123	101	KARAN	366	410	1		
	245	102	NAMAN	300	350	1		
	128	103	ISHA	400	410	1		
	129	104	RENU	350	357	1		
	234	105	ARPIT	100	75	IV		
	187	106	SABINA	100	205	II		
	181	107	NEELAM	470	450	1		
	i Identif keys? ii If 2 mo table re	data given y the colum ore column esult, what	above answer mns which s are addeo will be the	d and 3 new deg	conside conside rows are gree and	deleted fro cardinality	didate om the of the	
	above	table?						
	iii Write a	a statement	to increas	e the SE	EM2 mar	ks by 3% f	or the	
	student	ts securing	marks betw	veen 70	to 100.			
•	a. <u> </u>				1 0		.1	2
30	Given a Dicti test-series in Write a Pytho perform the s	onary Stu_ the form St on program pecified op	_dict con cu_ID:(TS) with the for erations or	taining n <i>1, TS2, T</i> ollowing n a stack	narks of (S3) as ke user-def named S	students for ey-value pa fined functi tu_Stk	r three irs. ons to	3
	(i) Push_el IDs of those Stu_Stk, wh Test.	Lements(S students, fr no have score	itu_Stk, rom the dic red more th	Stu_di etionary : nan or eq	.ct):I Stu_dio ual to 80	t allows pu ct into the marks in th	ushing stack ne TS3	
	(ii) Pop_ele inside the sta displays 'Stac Call both fund	ements(St ack in LIF(ek Empty' w ctions to ex	cu_Stk): D order an when there ecute quer	It remo d prints are no el ies.	oves all them. A ements i	elements p lso, the fu n the stack.	resent nction	
	For example:							
	If the dictional Stu_dict = 14:(66,81,80	ary Stu_di {5:(87,68 0), 18:(80	.ct contair ,89), 16),48,91)}	ns the fol):(57,54	lowing d ,61),	lata: 12:(71,67	,90),	
	After execut [5,12,14,18]	ting Push	_element	s(), S	Stk_ID	should c	ontain	
	After execution 18 14 12 5	ng Pop_el	ements()	, The ou	tput sho	uld be:		
	Stack Empty							

Q No.			Questic Section-D (8	ons Marks)		Marks
31	Create a from an a of variou various fi	function m already exis s employee ields as sho	axsalary() in sting file record es working in a d own below:	Python to .csv white partment.	read all the records ich stores the records Data is stored under	4
		E_code	E_name	Scale	Salary	
		A01	Bijesh Mehra	S4	65400	
		B02	Vikram Goel	S3 S2	60000	
		09		32	45500	
	Function	should dis	play the row when	e the salar	y is maximum.	
	Note: As	sume that	all employees ha	ve distinc	t salary.	
32	Consider about pr Product expensi 'INVENT higher th count of s For exam (1, 'ABC' (2, 'DEF', (3, 'GHI', then the f Product Product Total e	a binary f roducts us Name, Qu VeProductor ORY.DAT an Rs. 100 such expen ple: If the contexpen ple: 1 the contion sho inction sho inction sho inction sho inction sho inction sho inction sho inction sho	<pre>ile 'INVENTORY ing tuple with uantity, Pric ts() to and display de 00. Additionally, sive products. file stores the foll))) puld display e products: 1</pre>	DAT' th the struc e). Writ read th etails of p calculate owing data	at stores information eture (ProductID, e a Python function ne contents of roducts with a price and display the total a in binary format	4
Q No.			Questic Section-E (15	ons 5 Marks)		Marks
33	Fun Med planning Delhi. T ADMIN, You as a solutions (i) to ((blocks/bu	dia Service to set up it 'he Mumb DECORA a network of for them to v), keepir uildings and MBAI	FOOD	nt plannin Mumbai v have fou nd MEDIA iggest the s/problems e distance meters. DELH	g organization. It is with its head office in r blocks/buildings - best network-related s mentioned in points es between various	5

	Shortest d	istanca hatwaan va	rious buildings.		
		FROM – TO	inous bundings.	DISTANCE	
		ADMINITO DECORA	ATORS	90 meters	
		ADMIN TO MEDIA		75 meters	
				50 meters	
		DECORATORS TO	FOOD	65 meters	
		DECORATORS TO	MEDIA	50 meters	
		FOOD TO MEDIA		45 meters	
		DELHI Head Off	ice to MUMBAL	1475 KM	
		Campus			
		Campuo			
	The numb	per of computers at	various buildings i	is as follows:	
		BUII DING	NUMBER OF CON		
		ADMIN	110		
		DECORATORS	75		
		MEDIA	12		
		FOOD	20		
			-		
	i. Sug	gest the most app	ropriate location o	f the server inside the	
	MI	IMBAL campus (ou	t of the 4 buildings) Justify your answer	
	ii Dra	w the cable layout	to afficiently con	nect various buildings	
		hin the MUMPAL		neet various buildings	
			campus.		
	111. Wh	ich hardware devi	ice will you sugge	est to connect all the	
	con	nputers within each	n building?		
	iv. Wh	ich of the followi	ng will you sugge	est to establish online	
	face	e-to-face communi	cation between the	e people in the Admin	
	Off	ice of the MUMBA	AI campus and the	DELHI Head Office?	
	a. C	Cable TV			
	b. E	Email			
	c V	Video Conferencing	г		
	г.5 Г. Б.	Pevt Chat			
	v Wh	est type of network	(out of DAN IA)	N MAN WAND will	
	v. vi	at up in each of the	following acces?		
	Des		e following cases ?		
	a. I	he Mumbai campu	is gets connected v	with the Head Quarter	
	1	n Delhi			
	b. T	The computers conr	nected in the MUM	IBAI campus	
34	i Me	ntion any two diffe	rences hetween see	ek() and tell()	2+3-5
54	ii Cou	ncider a file ELTGH	T DAT containing	multiple records. The	2100
	II. COI	isturia of each record	d is as shown halo		
				w.	
	LEL	io, Finame, Far	e, Source, Des		
	Wr	ite a function COPY	[_REC() in Pytho	on that copies all those	
	rec	ords from FLIGHT	.DAT where the so	ource is DELHI and the	
	des	tination is MUMBAI	, into a new file RE	CORD.DAT	
			OR		
	i. Me	ntion any two diffe	rences between bin	ary files and csv files?	
	ii. Coi	nsider a Binarv f	ile BOOK.DAT co	ntaining a dictionary	
	hav	ving multiple eler	nents Each elen	nent is in the form	
	BNC	· FRIME BTVDE	DRTCEl as kovivi	alua pair	
	DIV(דייע, בייאאיש ייע דייב.	, INICE J AS KEY.VA	and pall	
	whe				
	BN	J – BOOK Number			
	BNA	AME – Book Name			
	BT	PE - Book Type			
	PR	ICE – Book price			
		-			

	Write a user-defined function, findBook(price), that accepts price as parameter and displays all those records from the binary file BOOK.DAT which has a book price more than or equal to the price value passed as a parameter.	
35	 i. Define the term constraint with respect to RDBMS. Give a suitable example. ii. Sameera maintains a database named STORE which contains a table named ITEM with the structure given below: Ino(Item number)- integer Iname(Item Name) - string Price (Item Price) - float Discount (Discount) - float Note the following to establish connectivity between Python and MySQL: Username - root Password - tiger Host - localhost Help her to remove the record from the table ITEM for a particular value of item name input by the user. import mysql.connect(host='localhost', user='root', password='_', database='STORE') #Statement-1 	5
	<pre>item_name = input("Enter the Item name to remove the record : ") query = #Statement-3 mycursor.execute(query) con1 #Statement-4 print('Data Deleted successfully') con1.close()</pre>	
	 With reference to the above code, answer the following questions a) Complete statement 1 to establish the connection with the database. b) Write statement 2 to create the cursor object. c) Complete statement 3 to remove the record from the table ITEM based on the item name entered by the user d) Complete statement 4 to save the changes in the table. 	
	 i. Write one difference between the alternate key and the candidate key. ii. A table named ITEM is created in a database STORE. The table contains multiple columns whose details are as shown below: Ino(Item number)- integer Iname(Item Name) - string Price (Item Price) - float Discount (Discount) - float 	
	 Note the following to establish connectivity between Python and MySQL: Username - root Password - tiger Host - localhost However, the table is to be interfaced with Python to perform certain tasks. The incomplete code is given below: 	

	#Line 1	
con1	<pre>= mysql.connect(host='localhost', user = 'root', password =</pre>	
'tige	er', database='STORE')	
mycu	rsor = con1 #Line 2	
query	<pre>y = 'SELECT * FROM ITEM where Price > {}'.format(_) #Line3</pre>	
mycu	rsor.execute(query)	
data	= mycursor#Line 4	
for	rec in data:	
	print(rec)	
con1	.close()	
i.	Complete line 1 to import the appropriate module.	
ii.	Complete Line 2 to create the cursor object	
iii.	Complete the query given in Line 3 to display details of all such	
	items from the table ITEMS whose price is more than 5000.	
iv.	Complete Line 4 to extract all the records.	