

COMPUTER SCIENCE

Time allowed : 3 hours

Maximum Marks : 70

NOTE

- (I) Please check that this question paper contains **15** printed pages.
- (II) Please check that this question paper contains **35** questions.
- (III) Q.P. Code given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- (IV) Please write down the serial number of the question in the answer-book before attempting it.
- (V) 15 minute time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.

91/S

CLICK HERE

>>>

P.T.O.

General Instructions :

Please read the instructions carefully.

- This question paper has 5 Sections : Sections A, B, C, D, E.
- All questions are compulsory. However, an internal choice of approximately 30% is provided.
- Section A has 18 questions carrying 1 mark each.
- Section B has 7 Very Short Answer (VSA) type questions carrying 2 marks each.
- Section C has 5 Short Answer (SA) type questions carrying 3 marks each.
- Section D has 2 Long Answer (LA) type question carrying 4 marks.
- Section E has 3 Source-based/Case-based/Passage-based questions carrying 5 marks each.

			SECTION A	L	18×1=18
1.		e True or False : Python, tuple is a mut	able data type".		1
2.	The j (A) (C)	primary key is selecte composite keys candidate keys	(B)	alternate keys foreign keys	1
3.	prir	t will be the output of at (6+5/4**2//5+8)	-		1
	(A) (C)	-14.0 14		14.0 -14	
4.	S = prir (A) (C)	ct the correct output o "text#next" ht(S.strip("t")) ext#nex text#nex	(B) (D)	ex#nex ext#next	1
91/8	5		2		
Get Mo	ore Le	arning Materials He	re : 🚺 СLICК Н		r www.studentbro.in

	(B)	ADD		
	(C)	INSERT		
	(D)	ALTER TABLE		
6.	'L' in	HTML stands for :		1
	(A)	Large	(B) Language	
	(C)	Long	(D) Laser	
7.	Iden	tify the valid Python identifier	from the following :	1
	(A)	2user	(B) user@2	
	(C)	user_2	(D) user 2	
8.	from Game	ider the statements given bel the given options : ="World Cup 2023" at (Game[-6::-1])	ow and then choose the correct output	1
	(A)	CdrW	(B) ce o	
	(C)	puC dlroW	(D) Error	
9.	>>>i	ict the output of the following I mport statistics as s .mode ([10, 20, 10, 30, 30 20 10 18.57		1
91/	S		3	P.T.O.
Get M	ore Le	arning Materials Here : 🌉		ntbro.in

In SQL, which command will be used to add a new record in a table ?

1

5.

(A)

UPDATE

10. Which of the following output will never be obtained when the given code is executed ?

	10 011	located i			
	impo	ort random			
	Shu	<pre>Shuffle = random.randrange(10)+1</pre>			
	Draw = 10*random.randrange(5)				
	<pre>print ("Shuffle", Shuffle, end="#")</pre>				
	print ("Draw", Draw)				
	(A) Shuffle 1 # Draw 0				
	(B) Shuffle 10 # Draw 10				
	(C) Shuffle 10 # Draw 0				
	(D) Shuffle 11 # Draw 50				
11.	Ethernet card is also known as :				
	(A)	LIC	(B)	MIC	
	(C)	NIC	(D)	OIC	
12.	What will be the output of the given code ?				
12.	a=10				
	def	convert(b=20):			
		a=30			

c=a+b print(a,c) convert(30)

print(a)

13. For the following Python statement : N = (25)

What shall be the type of N?

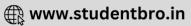
- (A) Integer
- (B) String
- (C) Tuple
- (D) List

91/S

Get More Learning Materials Here : 📕



4



1

1

1

- 14. Mr. Ravi is creating a field that contains alphanumeric values and fixed lengths. Which MySQL data type should he choose for the same ?
 - (A) VARCHAR
 - (B) CHAR
 - (C) LONG
 - (D) NUMBER
- **15.** Fill in the blank :

The full form of WWW is _____.

- **16.** _______ files are stored in a computer in a sequence of bytes.
 - (A) Text
 - (B) Binary
 - (C) CSV
 - (D) Notepad

Questions No.17 and 18 are Assertion and Reason type questions. Each question consists of two statements, namely, Assertion (A) and Reason (R). Select the most suitable option considering the Assertion and Reason.

17. Assertion (A): Global variables are accessible in the whole program.

Reason(R): Local variables are accessible only within a function or block in which it is declared.

- (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is *not* the correct explanation of Assertion (A).
- $(C) \quad Assertion (A) \ is \ true, \ but \ Reason (R) \ is \ false.$
- $(D) \quad Assertion \ (A) \ is \ false, \ but \ Reason \ (R) \ is \ true.$

91/S

CLICK HERE

>>



1

1

1

- **18.** Assertion (A) : If numeric data are to be written to a text file, the data needs to be converted into a string before writing to the file.
 - *Reason* (*R*): write() method takes a string as an argument and writes it to the text file.
 - (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
 - (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is *not* the correct explanation of Assertion (A).
 - (C) Assertion (A) is true, but Reason (R) is false.
 - (D) Assertion (A) is false, but Reason (R) is true.

		SECTION B	7×2=14
19.	(a) (i)	Expand the following terms : URL, XML	1+1=2

(ii) Give one difference between HTTP and FTP.

OR

- (b) (i) Define the term IP address with respect to network.
 - (ii) What is the main purpose of a Router ? 1+1=2
- **20.** Observe the following code carefully and rewrite it after removing **all syntactical errors**. Underline all the corrections made.

```
def lfunc():
    a=input("Enter a number"))
    if a>=33
        print("Promoted to next class")
    ELSE:
        print("Repeat")
```

Get More Learning Materials Here : 📕



6



2

21. (a) Write the definition of a method/function SearchOut(Teachers, TName) to search for TName from a list Teachers, and display the position of its presence. For example: If the Teachers contain ["Ankit", "Siddharth", "Rahul", "Sangeeta", "rahul"] and TName contains "Rahul" The function should display Rahul at 2 rahul at 4

OR

- (b) Write the definition of a method/function Copy_Prime(lst) to copy all the prime numbers from the list lst to another list lst_prime.
- **22.** Predict the output of the following code :

```
d={"IND":"DEL","SRI:"COL","CHI":"BEI"}
str1=""
for i in d:
   str1=str1+str(d[i])+"@"
   str2=str1[:-1]
print (str2)
```

- **23.** (a) Write the Python statement for **each** of the following tasks using BUILT-IN functions/methods only : 1+1=2
 - (i) To delete an element 10 from the list lst.
 - (ii) To replace the string "This" with "That" in the string str1. OR
 - (b) A dictionary dict2 is copied into the dictionary dict1 such that the common key's value gets updated. Write the Python commands to do the task and after that empty the dictionary dict1.

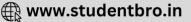
7

CLICK HERE

91/S

P.T.O.

2



2

2

24. (a) Mr. Atharva is given a task to create a database, Admin. He has to create a table, users in the database with the following columns : 1+1=2

User_id - int User_name - varchar(20) Password - varchar(10) Help him by writing SQL queries for both tasks.

OR

(b) Ms. Rita is a database administrator at a school. She is working on the table, student containing the columns like Stud_id, Name, Class and Stream. She has been asked by the Principal to strike off the record of a student named Rahul with student_id as 100 from the school records and add another student who has been admitted with the following details : 1+1=2

```
Stud_id - 123
Name - Rajeev
Class - 12
Stream - Science
Help her by writing SQL queries for both tasks.
```

25. Predict the output of the following code :

```
def Total (Num=10):
    Sum=0
    for C in range(1,Num+1):
        if C%2!=0:
            continue
        Sum+=C
    return Sum
print(Total(4),end="$")
```

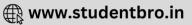
```
print(Total(),sep="@")
```

91/S

8

Get More Learning Materials Here : **_**





 $\mathbf{2}$

	SECTION C	5×3=15
26.	Predict the output of the Python code given below :	3
	s="India Growing"	
	n = len(s)	
	m=" "	
	for i in range (0, n) :	
	if $(s[i] \ge 'a' \text{ and } s[i] \le 'm')$:	
	m = m + s [i].upper()	
	elif (s[i] >= 'O' and s[i] <= 'z') :	
	m = m + s [i-1]	
	<pre>elif (s[i].isupper()):</pre>	
	m = m + s[i].lower()	
	else:	
	m = m + '@'	

anamiai

27. Consider the table **Stationery** given below and write the output of the SQL queries that follow.

Table : Stationery

print (m)

ITEMNO	ITEM	DISTRIBUTOR	QTY	PRICE
401	Ball Pen 0.5	Reliable Stationers	100	16
402	Gel Pen Premium	Classic Plastics	150	20
403	Eraser Big	Clear Deals	210	10
404	Eraser Small	Clear Deals	200	5
405	Sharpener Classic	Classic Plastics	150	8
406	Gel Pen Classic	Classic Plastics	100	15

- (i) SELECT DISTRIBUTOR, SUM(QTY) FROM STATIONERY GROUP BY DISTRIBUTOR;
- (ii) SELECT ITEMNO, ITEM FROM STATIONERY WHERE DISTRIBUTOR = "Classic Plastics" AND PRICE > 10;
- (iii) SELCET ITEM, QTY * PRICE AS "AMOUNT" FROM STATIONERY WHERE ITEMNO = 402;

91/S

CLICK HERE

>>

P.T.O.

28. (a) Write a method/function **COUNTWORDS()** in Python to read contents from a text file **DECODE.TXT**, to count and return the occurrence of those words, which are having 5 or more characters.

OR

(b) Write a method/function COUNTLINES() in Python to read lines from a text file CONTENT.TXT, and display those lines, which have @ anywhere in the line.

For example :

If the content of the file is :

Had an amazing time at the concert last night with @MusicLoversCrew. Excited to announce the launch of our new website!

G20 @ India

The method/function should display

Had an amazing time at the concert last night with @MusicLoversCrew G20 @ India

29. Consider the table Rent_cab, given below :

Table : Rent_cab

Vcode	VName	Make	Color	Charges
101	Big car	Carus	White	15
102	Small car	Polestar	Silver	10
103	Family car	Windspeed	Black	20
104	Classic	Studio	White	30
105	Luxury	Trona	Red	9

Based on the given table, write SQL queries for the following :

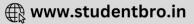
- (i) Add a primary key to a column name Vcode.
- (ii) Increase the charges of all the cabs by 10%.
- (iii) Delete all the cabs whose maker name is "Carus".

91/S

10







3

3

30. A dictionary, d_city contains the records in the following format : {state:city}

Define the following functions with the given specifications :

- (i) **push_city(d_city):** It takes the dictionary as an argument and pushes all the cities in the stack **CITY** whose states are of more than 4 characters.
- (ii) pop_city(): This function pops the cities and displays "Stack empty" when there are no more cities in the stack.

SECTION D

31. Consider the tables GAMES and PLAYERS given below :

Table : GAMES

GCode	GameName	Type	Number	PrizeMoney
101	Carrom Board	Indoor	2	5000
102	Badminton	Outdoor	2	12000
103	Table Tennis	Indoor	4	NULL
104	Chess	Indoor	2	9000
105	Lawn Tennis	Outdoor	4	25000

Table : PLAYERS

PCode	Name	GCode
1	Nabi Ahmad	101
2	Ravi Sahai	108
3	Jatin	101
4	Nazneen	103

Write SQL queries for the following :

- (i) Display the game type and average number of games played in each type.
- (ii) Display prize money, name of the game, and name of the players from the tables Games and Players.
- (iii) Display the types of games without repetition.
- (iv) Display the name of the game and prize money of those games whose prize money is known.

91/S

CLICK HERE

>>

4

3

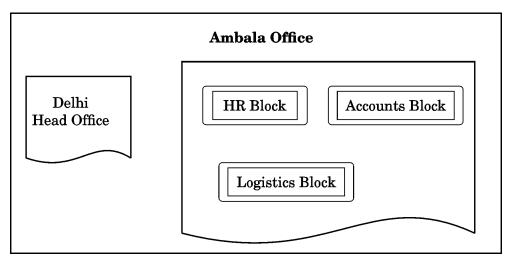
 $2 \times 4 = 8$

32. Mr. Mahesh is a Python Programmer working in a school. He has to maintain the records of the sports students. He has created a csv file named sports.csv, to store the details. The structure of sports.csv is: [sport_id, competition, prize_won] where sport_id, is Sport id (integer) competition is competition name (string) prize_won is ("Gold", "Silver", "Bronze") Mr. Mahesh wants to write the following user-defined functions: Add_detail(): to accept the detail of a student and add to a csv file, "sports.csv". Count_Medal(): to display the name of competitions in which students have won "Gold" medal.

Help him in writing the code of both the functions.

SECTION E $3 \times 5 = 15$

33. Logistic Technologies Ltd. is a Delhi based organization which is expanding its office set-up to Ambala. At Ambala office campus, they are planning to have 3 different blocks for HR, Accounts and Logistics related work. Each block has a number of computers, which are required to be connected to a network for communication, data and resource sharing.



91/S

12

>>

🕀 www.studentbro.in

4

Get More Learning Materials Here :

As a network consultant, you have to suggest the best network related solutions for them for issues/problems raised in (i) to (v), keeping in mind the distances between various block/locations and other given parameters.

HR Block to Accounts Blocks	400 meters
Accounts Block to Logistics Block	200 meters
Logistics Block to HR Block	150 meters
Delhi Head Office to Ambala Office	220 Km

Distances between various blocks/locations :

Number of computers installed at various blocks are as follows :

HR Block	70
Accounts Block	40
Logistics Block	30

- (i) Suggest the most appropriate block/location to house the SERVER in the Ambala office. Justify your answer.
- (ii) Suggest the best wired medium to efficiently connect various blocks within the Ambala office compound.
- (iii) Draw an ideal cable layout (Block to Block) for connecting these blocks for wired connectivity.
- (iv) The company wants to schedule an online conference between the managers of Delhi and Ambala offices. Which protocol will be used for effective voice communication over the Internet ?
- (v) Which kind of network will it be between Delhi office and Ambala office ? 5

CLICK HERE

>>>

- **34.** (a) (i) What is the main purpose of **seek()** and **tell()** method?
 - (ii) Consider a binary file, Cinema.dat containing information in the following structure :

[Mno, Mname, Mtype]

Write a function, **search_copy()**, that reads the content from the file **Cinema.dat** and copies all the details of the "**Comedy**" movie type to file named **movie.dat**.

OR

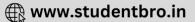
- (b) (i) Give one difference between write() and writeline() function in text file.
 - (ii) A Binary file, "Items.dat" has the following structure : [Icode, Description, Price] Where Icode - Item code Description - Detail of item Price - Price of item Write function а Add data(), that takes Icode, Description and Price from the user and writes the information in the binary file "Items.dat".
- **35.** (a) (i) Define the term foreign key with respect to RDBMS.
 - (ii) Sangeeta wants to write a program in Python to delete the record of a candidate "Raman" from the table named Placement in MySQL database, Agency: The table Placement in MySQL contains the following attributes:
 CName - String
 Dept - String
 Place - String
 Salary - integer
 Note the following to establish connectivity between Python and MySQL:
 Username - root
 - Password job
 - Host-localhost

Help Sangeeta to write the program in Python for the above mentioned task.

OR

CLICK HERE

>>



5

5

5

Get More Learning Materials Here : 💶

- (b) (i) Give one difference between CHAR and VARCHAR datatype in MySQL.
 - (ii) Rahim wants to write a program in Python to insert the following record in the table named Bank_Account in MySQL database, Bank :
 - Accno integer
 - Cname string
 - Atype string
 - Amount float

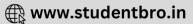
Note the following to establish connectivity between Python and MySQL :

- Username admin
- Password root
- Host-localhost

The values of fields Accno, Cname, Atype and Amount have to be accepted from the user. Help Rahim to write the program in Python.

Get More Learning Materials Here :





CBSE AISSCE 2024 (Supplementary) Marking Scheme for Computer Science

(Series &RQPS/S Sub Code: 083 Q.P. Code 91/S) Marking Scheme Strictly Confidential (For Internal and Restricted use only) Senior Secondary School Certificate Examination, 2024 Subject Name: Computer Science (Q.P. CODE 91/S)

1	You are aware that evaluation is the most important process in the actual and correct assessment of the candidates. A small mistake in evaluation may lead to serious problems which may affect the future of the candidates, education system and teaching profession. To avoid mistakes, it is requested that before starting evaluation, you must read and understand the spot evaluation guidelines carefully.
2	"Evaluation policy is a confidential policy as it is related to the confidentiality of the examinations conducted, Evaluation done and several other aspects. Its' leakage to the public in any manner could lead to derailment of the examination system and affect the life and future of millions of candidates. Sharing this policy/document to anyone, publishing in any magazine and printing in News Paper/Website etc. may invite action under various rules of the Board and IPC."
3	Evaluation is to be done as per instructions provided in the Marking Scheme. It should not be done according to one's own interpretation or any other consideration. Marking Scheme should be strictly adhered to and religiously followed. However, while evaluating answers which are based on latest information or knowledge and/or are innovative, they may be assessed for their correctness otherwise and due marks be awarded to them. In class-XII, while evaluating two competency-based questions, please try to understand the given answer and even if the reply is not from the marking scheme but correct competency is enumerated by the candidate, due marks should be awarded.
4	The Marking scheme carries only suggested value points for the answers These are in the nature of Guidelines only and do not constitute the complete answer. The students can have their own expression and if the expression is correct, the due marks should be awarded accordingly.
5	The Head-Examiner must go through the first five answer books evaluated by each evaluator on the first day, to ensure that evaluation has been carried out as per the instructions given in the Marking Scheme. If there is any variation, the same should be zero after deliberation and discussion. The remaining answer books meant for evaluation shall be given only after ensuring that there is no significant variation in the marking of individual evaluators.
6	Evaluators will mark(\int) wherever the answer is correct. For wrong answers CROSS 'X' be marked. Evaluators will not put right (\checkmark) while evaluating which gives an impression that the answer is correct and no marks are awarded. This is the most common mistake which evaluators are committing.
7	If a question has parts, please award marks on the right-hand side for each part. Marks awarded for different parts of the question should then be totaled up and written in the left-hand margin and encircled. This may be followed strictly.
8	If a question does not have any parts, marks must be awarded in the left-hand margin and encircled. This may also be followed strictly.
9	If a student has attempted an extra question, the answer of the question deserving more marks should be retained and the other answer scored out with a note "Extra Question".
10	No marks to be deducted for the cumulative effect of an error. It should be penalized only once.
11	A full scale of 70 marks as given in Question Paper has to be used. Please do not hesitate to award full marks if the answer deserves it.

Page 1/23



SET-4

6	All answers/codes are suggestive, any other alternative correct answers to be accepted.
5	In MySQL output questions, alignment (left/right) of content to be ignored.
4	In MySQL output questions, column headings to be ignored.
3	In MySQL commands, lowercase/UPPERCASE both are correct.
2	In MySQL, CHAR/VARCHAR/DATE type content is accepted within a pair of single quotes ' ' or within a pair of double quotes " ".
1	In Python, string content is accepted within a pair of single quotes '' or within a pair of double quotes "".
	SPECIFIC INSTRUCTIONS FOR COMPUTER SCIENCE ONLY
18	The candidates are entitled to obtain a photocopy of the Answer Book on request on payment of the prescribed processing fee. All Examiners/Additional Head Examiners/Head Examiners are once again reminded that they must ensure that evaluation is carried out strictly as per value points for each answer as given in the Marking Scheme.
17	Every Examiner shall also ensure that all the answers are evaluated, marks carried over to the title page, correctly totaled and written in figures and words.
16	The Examiners should acquaint themselves with the guidelines given in the "Guidelines for Spot Evaluation" before starting the actual evaluation.
15	Any unassessed portion, non-carrying over of marks to the title page, or totaling error detected by the candidate shall damage the prestige of all the personnel engaged in the evaluation work as also of the Board. Hence, in order to uphold the prestige of all concerned, it is again reiterated that the instructions be followed meticulously and judiciously.
14	While evaluating the answer books, if the answer is found to be totally incorrect, it should be marked as cross (X) and awarded zero (0)Marks.
	 in the past:- Leaving the answer or part thereof unassessed in an answer book. Giving more marks for an answer than assigned to it. Wrong totaling of marks awarded on an answer. Wrong transfer of marks from the inside pages of the answer book to the title page. Wrong question wise totaling on the title page. Wrong totaling of marks of the two columns on the title page. Wrong grand total. Marks in words and figures not tallying/not same. Wrong transfer of marks from the answer book to online award list. Answers marked as correct, but marks not awarded. (Ensure that the right tick mark is correctly and clearly indicated. It should merely be a line. Same is with the X for incorrect answers.) Half or a part of the answer was marked correct and the rest was wrong, but no marks were awarded.
13	Ensure that you do not make the following common types of errors committed by the Examiner
12	Every examiner has to necessarily do evaluation work for full working hours i.e., 8 hours every day and evaluate 20 answer books per day in main subjects and 25 answer books per day in other subjects (Details are given in Spot Guidelines). This is in view of the reduced syllabus and number of questions in question paper.

Page 2/23

CLICK HERE

>



CBSE AISSCE 2024 (Supplementary) Marking Scheme for Computer Science

(Series &RQPS/S Sub Code: 083 Q.P. Code 91/S)

General Instructions:

Please read the instructions carefully.

- This question paper has 5 Sections: Sections A,B,C,D,E.
- All questions are compulsory. However, an internal choice of approximately 30% is provided.
- Section A has 18 questions carrying 1 mark each.
- Section B has 7 Very Short Answer(VSA) type questions carrying 2 marks each.
- Section C has 5 Short Answer(SA) type questions carrying 3 marks each.
- Section D has 2 Long Answer(LA) type questions carrying 4 marks.
- Section E has 3 Source-based/ Case-based/Passage-based questions carrying 5 marks each.

SECTION A

18x1=18

SET-4

1.		e True or False : Yython, tuple is a mutable data type".			1
Ans	False				
	(1 M	ark for the correct answer)			
2.	The _l	primary key is selected from the set of _		·	1
	(A)	composite keys	(B)	alternate keys	
	(C)	candidate keys	(D)	foreign keys	
Ans	(C)	candidate keys			
	(1 M	ark for the correct answer)			
3.		t will be the output of the following states (6+5/4**2//5+8)	temei	nt ?	1
	(A)	-14.0	(B)	14.0	
	(C)	14	(D)	-14	
Ans	(B)	14.0			
	(1 M	ark for the correct answer)			
4.	<pre>Select the correct output of the code: S = "text#next" print(S.strip("t"))</pre>				
	(A)	ext#nex	(B)	ex#nex	
	(C)	text#nex	(D)	ext#next	
Ans	(A)	ext#nex	•	· · · · · · · · · · · · · · · · · · ·	
	(1 M	ark for the correct answer)			

Page 3/23

Get More Learning Materials Here : 📕



CBSE AISSCE 2024 (Supplementary) Marking Scheme for Computer Science

	•			•	
((Series	&RQPS/S	Sub Code:	083 Q.P.	Code 91/S

	(Series & RQPS/S Sub Code: 083 Q.P. Code 91/S)				
5.	In SQ	L, which command will be used to add	a nev	v record in a table ?	1
	(A)	UPDATE	(B)	ADD	
	(C)	INSERT	(D)	ALTER TABLE	
Ans	(C)	INSERT			
	(1 M	ark for the correct answer)			
6.	'L' in	HTML stands for :	_		1
	(A)	Large	(B)	Language	
	(C)	Long	(D)	Laser	
Ans	(B)	Language			
	(1 M	ark for the correct answer)			
7.	Ident	tify the valid Python identifier from the	follo	wing :	1
	(A)	2user	(B)	user@2	
	(C)	user_2	(D)	user 2	
Ans	(C)	user_2			
	(1 Mark for the correct answer)				
8.	optic Game		en ch	noose the correct output from the given	1
	(A)	CdrW	(B)	ce o	
	(C)	puC dlroW	(D)	Error	
Ans	(C)	puC dlroW	•		
	(1 M	ark for the correct answer)			
9.	Predict the output of the following Python statements: >>>import statistics as s >>>s.mode ([10, 20, 10, 30, 10, 20, 30])				
	(A)	30	(B)	20	
	(C)	10	(D)	18.57	
Ans	(C)	10			
	(1 M	ark for the correct answer)			

Page 4/23

CLICK HERE

>>

Get More Learning Materials Here : 📕



		(Series &RQPS/S Sub Code	: 083	Q.P. Code 91/S)	SET-4
10.	impo Shuf Drav prir	th of the following output will never be ort random Efle = random.randrange(10)+1 w = 10*random.randrange(5) nt ("Shuffle", Shuffle, end="# nt ("Draw", Draw)		ned when the given code is executed ?	1
	(A)	Shuffle 1 # Draw 0	(B)	Shuffle 10 # Draw 10	
	(C)	Shuffle 10 # Draw 0	(D)	Shuffle 11 # Draw 50	
Ans	(D)	Shuffle 11 # Draw 50			
	(1 Ma	ark for the correct answer)			
11.	Ethe	rnet card is also known as :			1
	(A)	LIC	(B)	MIC	
	(C)	NIC	(D)	OIC	
Ans	(C)	NIC			
	(1 Mark for the correct answer)				
12.	a=10 def a c F	<pre>t will be the output of the given code ? convert(b=20): a=30 c=a+b print(a,c) vert(30) ht(a)</pre>			1
Ans	30 e 10	50			
	(1/2 /	Mark for each line of the output)			
13.	N =	he following Python statement : (25) t shall be the type of N ?			1
	(A)	Integer	(B)	String	
	(C)	Tuple	(D)	List	
Ans	(A)	Integer			
	(1 M	ark for the correct answer)			
14.		avi is creating a field that contains alph L data type should he choose for the sa			1
	(A)	VARCHAR	(B)	CHAR	
	(C)	LONG	(D)	NUMBER	

Page 5/23



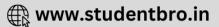
CBSE AISSCE 2024 (Supplementary) Marking Scheme for Computer Science

Ans	(B)	CHAR	. 005		JL1-4		
7 113	(1 Mark for the correct answer)						
15							
15.	Fill in the blank :						
	The f	full form of WWW is					
Ans	World	d Wide Web					
	(1 M	ark for the correct answer)					
16.		files are stored in a computer in	a se	quence of bytes.	1		
	(A)	Text	(B)	Binary			
	(C)	CSV	(D)	Notepad			
Ans	(B)	Binary					
	(1 M	ark for the correct answer)					
state	ements			questions. Each question consists of two ct the most suitable option considering			
17	Assertion (A) : Global variables are accessible in the whole program. 1 Reason (R) : Local variables are accessible only within a function or block in which it is declared.						
	(A)	Both Assertion (A) and Reason (R) are t explanation of Assertion (A).	rue a	nd Reason (R) is the correct			
	(B)	Both Assertion (A) and Reason (R) are t explanation of Assertion (A).	rue, I	out Reason (R) is <i>not</i> the correct			
	(C)	Assertion (A) is true, but Reason (R) is	false.				
	(D)	Assertion (A) is false, but Reason (R) is	true.				
Ans	(B)	Both Assertion (A) and Reason (R) are t explanation of Assertion (A).	rue, l	out Reason (R) is not the correct			
		(1 Mark for the correct answer)					
18	18 Assertion (A) : If numeric data are to be written to a text file, the data needs to be converted into a string before writing to the file. 1 Reason (R) : write() method takes a string as an argument and writes it to the text file.						
	(A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).						
	(B)	Both Assertion (A) and Reason (R) are t explanation of Assertion (A).	rue, l	out Reason (R) is not the correct			
	(C)	Assertion (A) is true, but Reason (R) is	false.				
	(D)	Assertion (A) is false, but Reason (R) is	true.				

Page 6/23

CLICK HERE

(»



SET-4

Ans	(A)	Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).	
		(1 Mark for the correct answer)	
		Note: (Full 1 Mark should be given for writing (A) OR (B) as the correct answer)	

SECTION B

URL, XML (ii) Give one difference between HTTP and FTP. **Uniform Resource Locator** (a) (i) eXtensible Markup Language (1/2 Mark for writing correct expansion of URL) (1/2 Mark for writing correct expansion of XML) (ii) HTTP FTP Hypertext Transfer Protocol File Transfer Protocol HTTP is used for accessing Web pages FTP is used to transfer Files from one computer to another computer over the internet OR Any other correct difference with or without supporting examples. (1 Mark for writing any one valid difference between HTTP and FTP with or without supporting example) OR (1/2 Mark for writing anyone correct characteristic for HTTP) (1/2 Mark for writing anyone correct characteristic for FTP) OR (i) Define the term IP address with respect to network. 1+1=(b) (ii) What is the main purpose of a Router? 2 (b) (i) IP Address: It is the unique address for each computer on a network. (1 Mark for writing correct meaning or any one appropriate purpose of IP address) (ii) A router is a device that:

1. connects two or more packet-switched networks or subnetworks.

2. manages traffic between networks by forwarding data packets to their intended IP addresses

3. allows multiple devices to use the same Internet connection.

Page 7/23

Get More Learning Materials Here : 📕

19

Ans

Ans

Ans

(a)

(i) Expand the following terms :





SET-4

7x2=14

1+1=2

CBSE AISSCE 2024 (Supplementary) Marking Scheme for Computer Science

		(Series & ROPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
		(1 Mark for writing correct meaning or any one appropriate purpose of Router)
20.	error def a= if EI	<pre>erve the following code carefully and rewrite it after removing all syntactical rs. Underline all the corrections made. 1func(): =input("Enter a number")) f a>=33 print("Promoted to next class") LSE: print("Repeat")</pre>	2
Ans	a= if <u>el</u>	func1(): # Error Correction 1 (or Any other valid correct =int(input("Enter a number")) # Error Correction 2 f a>=33: # Error Correction 3 print("Promoted to next class") # Error Correction 4 lse: # Error Correction 4 print("Repeat") # Error Correction 4	ion)
	(½ A	Mark for each of the four corrections)	
21.	(a)	<pre>Write the definition of a method/function SearchOut(Teachers,TName) to search for TName from a list Teachers, and display the position of its presence. For example : If the Teachers Contain ["Ankit", "Siddharth", "Rahul", "Sangeeta", "rahul"] and TName Contains "Rahul" The function should display Rahul at 2 rahul at 4</pre>	2
Ans		<pre>def SearchOut(Teachers, TName): for I in range(len(Teachers)): if TName.lower() == Teachers[I].lower(): print(Teachers[I], "at", I) OR Any other correct variation of the code (½ Mark for the loop to process individual names in the list Teachers) (1 Mark for non-case sensitive correct comparison with Tname) (% Mark for non-case sensitive correct comparison with Tname) </pre>	
		(½ Mark for printing in correct format)	
		OR	
	(b)	Write the definition of a method/function Copy_Prime(lst) to copy all the prime numbers from the list lst to another list lst_prime.	2



		(Series &RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
Ans		<pre>def Copy_Prime(lst): lst_prime=[] for L in lst: for N in range(2,L//2+1): # OR for N in range(2,L**0.5+1): if L%N==0: break else: lst_prime.append(L) return lst_prime OR Any other correct variation of the ende</pre>	
		Any other correct variation of the code (1/2 Mark for the loop to select the number from the list lst) (1 Mark for correctly identifying prime number) (1/2 Mark for appending the prime number in the list lst_prime)	
22.		<pre>Predict the output of the following code : d={"IND":"DEL","SRI:"COL","CHI":"BEI"} str1="" for i in d: str1=str1+str(d[i])+"@" str2=str1[:-1] print (str2)</pre>	2
Ans		DEL@COL@BEI OR Syntax Error as "SRI does not have closing quotes and str1 and str1 are differently typed	
		(1 Mark for writing DEL COL BEI) (1 Mark for correct format and placement of @) OR (2 Marks for mentioning error in the given code)	
23.	(a)	Write the Python statement for each of the following tasks using BUILT-IN functions/methods only: (i) To delete an element 10 from the list lst. (ii) To replace the string "This" with "That" in the string str1.	1+1=2
Ans	(a)	(i) lst.remove(10) OR Any other correct Python command using valid BUILT-IN method/function	
		 (1 Mark for writing correct command using valid BUILT-IN method/function) Note: ½ Mark to be awarded if answer is lst.pop(9) or lst.pop(10) 	
		<pre>(ii) str1.replace("This", "That") OR Any other correct Python command using valid BUILT-IN method/function</pre>	
		(1 Mark for writing correct command using valid BUILT-IN method/function)	
		Page 9/23	L

Page 9/23

Get More Learning Materials Here : 📕

CLICK HERE



SET-4

CBS е

SE AISSCE 2024 (Supplementary) Marking Scheme for	Computer	Science
(Series & ROPS/S Sub Code: 083 Q.P. Code 91/S)		

OR

A dictionary dict2 is copied into the dictionary dict1 such that the common key's value gets updated. Write the Python commands to do the task and after that empty the dictionary dict1.	2
dict1.update(dict2) dict1.clear()	
OR Any other correct variation of the commands	
(1 Mark for correctly updating the dictionary dict1 by dict2) (1 Mark for correctly emptying the dictionary dict1)	
Mr. Atharva is given a task to create a database, Admin. He has to create a table, users in the database with the following columns :	1+1= 2
User_id - int User_name - varchar(20) Password - varchar(10)	
Help him by writing SQL queries for both tasks.	
CREATE DATABASE Admin;	
CREATE TABLE users (User_id int, User_name varchar(20), Password varchar(10));	
(1 Mark for each correct command)	
OR	
Ms. Rita is a database administrator at a school. She is working on the table, student containing the columns like Stud_id, Name, Class and Stream. She has been asked by the Principal to strike off the record of a student named Rahul with student_id as 100 from the school records and add another student who has been admitted with the following details :	1+1= 2
Stud_id - 123 Name - Rajeev Class - 12 Stream - Science	
Help her by writing SQL queries for both tasks.	
DELETE FROM Student WHERE Name="Rahul" and Stud_id=100; OR DELETE FROM Student WHERE Name="Rahul" and student id=100;	

Page 10/23

Get More Learning Materials Here :

Any valid and equivalent SQL query.

(b)

(b)

(a)

(a)

(b)

Ans

24.

Ans

Ans

(b)

OR



SET-4

(>> CLICK HERE

	(Series & RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
	<pre>INSERT INTO Student(Stud_id, Name, Class, Stream) VALUES (123,"Rajeev",12,"Science"); OR</pre>	
	INSERT INTO Student	
	VALUES (123, "Rajeev", 12, "Science");	
	OR	
	Any valid and equivalent SQL query.	
	(1 Mark for each correct SQL query)	
25	<pre>Predict the output of the following code : def Total(Num=10): Sum=0</pre>	2
	<pre>for C in range(1,Num+1): if C%2!=0:</pre>	
	continue	
	Sum+=C	
	return Sum	
	<pre>print(Total(4), end="\$")</pre>	
	<pre>print(Total(), sep="@")</pre>	
Ans	6\$30	
	(1 Mark for each value of correct output)	
	Note:	
	Deduct 1/2 mark only if \$ not written correctly	

SECTION C

5x3=15

26.	<pre>Predict the output of the Python code given below : s="India Growing" n = len(s) m="" for i in range (0, n) : if (s[i] >= 'a' and s[i] <= 'm') : m = m + s [i].upper() elif (s[i] >= 'O' and s[i] <= 'z') : m = m + s [i-1] elif (s[i].isupper()): m = m + s[i].lower() else: m = m + '@' print (m)</pre>	3
Ans	<pre>iIDIA@gGroIiG #Considering capital O in the 7th line of code OR i@DIA@gGroI@G #Considering small o in the 7th line of code</pre>	
	(1 Mark for correctly writing the part iIDIA or i@DIA) (1 Mark for correctly placing the character @ at the 5th position) (1 Mark for correctly writing the part gGroIiG or gGroI@G) Note: Deduct only ½ if the output content is correct but written in different lines or format is incorrect	

Page 11/23

CLICK HERE

》

Get More Learning Materials Here : 📕

🕀 www.studentbro.in

27			the table Statione: nat follow.	ry given below and write th	e output	of the SQL	3	
		Table :	Stationery					
		ITEMNO	ITEM	DISTRIBUTOR	QTY	PRICE		
		401	Ball Pen 0.5	Reliable Stationers	100	16		
		402	Gel Pen Premium	Classic Plastics	150	20		
		403	Eraser Big	Clear Deals	210	10		
		404	Eraser Small	Clear Deals	200	5		
		405	Sharpener Classi	c Classic Plastics	150	8		
		406	Gel Pen Classic	Classic Plastics	100	15		
		GRC (ii) SEL WHE (iii) SEL	UP BY DISTRIBUTOR ECT ITEMNO, ITEM RE DISTRIBUTOR =		D PRICE			
Ans		(i)						
		DISTRI	BUTOR	SUM (QTY)				
		Relia	ble Stationers	100				
		Class	ic Plastics	400				
		Clear	Deals	410				
		(ii)		<u> </u>				
		ITEMNC	ITEM					
		402	Gel Pen Premium					
		406	Gel Pen Classic					
		(iii)	•					
		ITEM		AMOUNT				
		Gel Pe	en Premium	3000				
		Note (for Part iii only): Full 1 Mark for identifying Syntax error for wrongly spelt SELECT as SELCET						
		(1 Mark for writing each correct output)						
		 Note: Ignore output heading for part (i) and (ii), however, in part (iii), mentioning AMOUNT as heading of the second column is a must. Ignore order of rows 						
28	(a)	file DECO		WORDS () in Python to read concerning the occurrence of those .			3	

Page 12/23



SET-4

		E AISSCE 2024 (Supplementary) Marking Scheme for Computer Science (Series &RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-
Ans		<pre>def COUNTWORDS(): NW=0 with open("DECODE.TXT",'r') as F:</pre>	
		S=F.read().split()	
		for W in S:	
		if len(W)>=5: NW+=1	
		return NW	
		OR	
		Any other correct variation of the code	
		(1/2 Mark for correctly opening the text file in read mode using any valid method)	
		(1 Mark for processing each word in the text file)	
		(1 Mark for counting words having 5 or more characters)	
		(1/2 Mark for returning the desired value)	
		OR	
	(b)	Write a method/function COUNTLINES() in Python to read lines from a text file CONTENT.TXT, and display those lines, which have @ anywhere in the line.	3
		For example :	
		If the content of the file is :	
		Had an amazing time at the concert last night with @MusicLoversCrew. Excited to announce the launch of our new website!	
		G20 @ India	
		The method/function should display	
		Had an amazing time at the concert last night with @MusicLoversCrew G20 @ India	
Ans		<pre>def COUNTLINES(): f=open("CONTENT.TXT","r")</pre>	
		LS=f.readlines()	
		for L in LS:	
		if "@" in L: print(L)	
		f.close()	
		OR	
		Any other correct variation of the code	
		(1/2 Mark for correctly opening the text file in read mode using any valid method)	
		(1 Mark for processing each line in the text file)	
		(1 Mark for checking whether a line contains the character @ or not) (½ Mark for displaying the desired line)	

Page 13/23

CLICK HERE

(»

🕀 www.studentbro.in

29	Consider the table Rent_cab, giv	ven below :	17.57		3
	Table : Rent_cab				
	Vcode VName	Make	Color	Charges	-
	101 Big car	Carus	White	15	_
	102 Small car	Polestar	Silver	10	_
	103 Family car	Windspeed	Black	20	_
	104 Classic	Studio	White	30	-
	105 Luxury	Trona	Red	9	-
	Based on the given table, write (i) Add a primary key to a colu (ii) Increase the charges of all (iii) Delete all the cabs whose r	umn name Vcode. the cabs by 10%.	-		
Ans	(i) ALTER TABLE Rent_cab ADD PRIMARY KEY (Vcod OR ALTER TABLE Rent_cab ADD CONSTRAINT PRIMAR				
	(1/2 Mark for Alter TABLE pa (1/2 Mark for Add Primary KE	•			
	<pre>(ii) UPDATE Rent_cab SET Charges=Charges*1 OR UPDATE Rent_cab SET Charges=Charges+C</pre>				
	(1/2 Mark for UPDATE part) (1/2 Mark for SET part)				
	(iii) DELETE FROM Rent_cab WHERE Make="Carus";				
	(1/2 Mark for DELETE command (1/2 Mark for WHERE clause))			
30	A dictionary, d_city contains t {state:city} Define the following functions w (i) push_city(d_city): It ta the cities in the stack CITY (ii) pop_city(): This function when there are no more citi	vith the given specific akes the dictionary as whose states are of m pops the cities and d	ations : an argument ore than 4 c	and pushes all haracters.	3
Ans	<pre>(i) CITY=[] def push_city(d_cit for c in d_city: if len(c) > 4 CITY.append</pre>	:			

Page 14/23





SET-4

·	(Series & RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
	<pre>(ii) def pop_city(): while CITY: print(CITY.pop()) else: print("Stack empty")</pre>	
	OR	
	Any other correct variation of the code	
	(½ Mark for the correct loop in the function push_city) (½ Mark for correctly checking the number of chars in the function push_city) (½ Mark for pushing the correct cities into CITY in the function push_city)	
	(½ Mark for the correct loop in the function pop_city) (½ Mark for correctly checking the underflow condition and printing "Stack Empty" in the function pop_city) (½ Mark for correctly popping in the function pop_city)	
	Note: Ignore the declaration of CITY	

SECTION D

2x4=8

31		Consider t	the tables GAMES and	PLAYERS given b	pelow :		4
		Table : G	AMES				
		GCode	GameName	Туре	Number	PrizeMoney	
		101	Carrom Board	Indoor	2	5000	
		102	Badminton	Outdoor	2	12000	
		103	Table Tennis	Indoor	4	NULL	
		104	Chess	Indoor	2	9000	
		105	Lawn Tennis	Outdoor	4	25000	
		Table : PL	AYERS	1	٦		
		PCode	Name	GCode	_		
		1	Nabi Ahmad	101			
		2	Ravi Sahai	108			
		3	Jatin	101			
		4	Nazneen	103			
		Write SQL	queries for the follow	wing:			
	(i)	Display the	game type and avera	age number of ga	ames played ir	n each type.	
Ans		GROUP BY OR	ype, AVG(Number) Type; correct equivalent qu		It using join		

Page 15/23

Get More Learning Materials Here : 💻





		(Series &RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
		(1/2 Mark for SELECT - FROM part) (1/2 Mark for GROUP BY part)	
	(ii)	Display prize money, name of the game, and name of the players from the tables Games and Players.	
Ans		SELECT PrizeMoney, GameName, Name FROM GAMES, PLAYERS WHERE GAMES.GCode=PLAYERS.GCode;	
		(1/2 Mark for SELECT - FROM part) (1/2 Mark for WHERE part)	
	(iii)	Display the types of games without repetition.	
Ans		SELECT DISTINCT TYPE FROM GAMES; OR Any other correct equivalent query with/without using join	
		(1 Mark for correct command)	
	(iv)	Display the name of the game and prize money of those games whose prize money is known.	
Ans		SELECT GameName, PrizeMoney FROM GAMES WHERE PrizeMoney IS NOT NULL; OR	
		Any other correct equivalent query with/without using join	
		(½ Mark for SELECT - FROM part) (½ Mark for where part)	
32		<pre>Mr. Mahesh is a Python Programmer working in a school. He has to maintain the records of the sports students. He has created a csv file named sports.csv, to store the details.The structure of sports.csv is : [sport_id, competition, prize_won] where sport_id, is Sport id (integer) competition is competition name (string) prize_won is ("Gold", "Silver", "Bronze")</pre>	4
		<pre>Mr. Mahesh wants to write the following user-defined functions : Add_detail(): to accept the detail of a student and add to a csv file, "sports.csv". Count_Medal(): to display the name of competitions in which students have won "Gold" medal.</pre>	
		Help him in writing the code of both the functions.	
Ans		<pre>import csv def Add_detail(): F=open("sports.csv","a") W=csv.writer(F) sport_id=int(input("Sport id:")) competition=input("Competition:") prize_won=input("Prize won:")</pre>	

Page 16/23

CLICK HERE

(>>

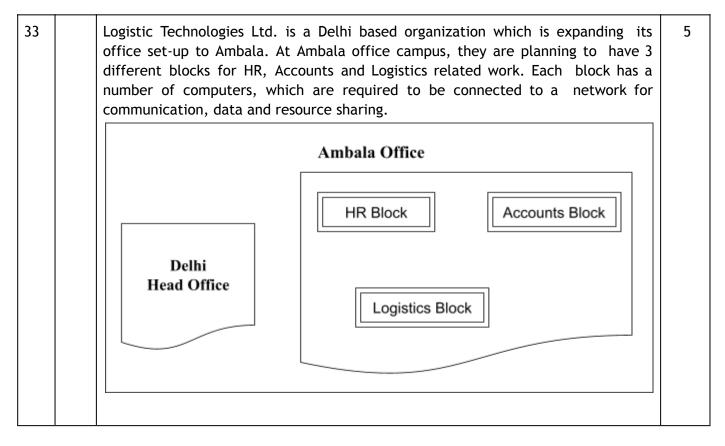
Get More Learning Materials Here : 📕



 (Series &RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
L=[sport id, competition, prize won]	
W.writerow(L)	
F.close()	
def Count Medal():	
F=open("sports.csv","r")	
L=list(csv.reader(F))	
for D in L:	
if D[2]=="Gold":	
<pre>print("Competition:",D[1])</pre>	
F.close()	
OR	
Any other correct variation of the code	
(1/2 Mark for opening the csv file correctly in the function Add_detail()) (1/2 Mark for reading the data from the user in the function Add_detail()) (1/2 Mark for writing the data correctly into the csv file in the function Add_detail())	
(1/2 Mark for opening the csv file correctly in the function Count_Medal()) (1/2 Mark for reading the data from the file in the function Count_Medal()) (1/2 Mark for loop in the function Count_Medal())	
(1/2 Mark for checking the condition correctly in the function Count_Medal()) (1/2 Mark for printing the output correctly in the function Count_Medal()) Note:	
• Ignore importing of CSV	

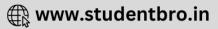
SECTION-E

3x5=15



Page 17/23





	(Series &RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
	As a network consultant, you have to suggest the best network related solutions for them for issues/problems raised in (i) to (v), keeping in mind the distances between various block/locations and other given parameters.	
	Distances between various blocks/locations :	
	HR Block to Accounts Blocks 400 meters	
	Accounts Block to Logistics Block 200 meters	
	Logistics Block to HR Block 150 meters	
	Delhi Head Office to Ambala Office 220 Km	
	Numb <u>er of computers installed at various blocks are as follows :</u>	
	HR Block 70	
	Accounts Block 40	
	Logistics Block 30	
(i)	Suggest the most appropriate block/location to house the SERVER in the Ambala office. Justify your answer.	
Ans	HR Block as it has maximum number of computers OR Any other block/location with valid justification	
	(½ Mark for the correct answer) (½ Mark for the valid justification)	
(ii)	Suggest the best wired medium to efficiently connect various blocks within the Ambala office compound.	
Ans	Optical Fiber	
	(1 Mark for the correct answer)	
(iii)	Draw an ideal cable layout (Block to Block) for connecting these blocks for wired connectivity.	
Ans	HR Block Accounts Block Logistics Block HR Block Connecting blocks with Server Location Connecting blocks with least distances	
ł	Page 18/23	-!

Get More Learning Materials Here : 📕

CLICK HERE



	(Series &RQPS/S Sub Code: 083 Q.P. Code 91/S) OR Any other cable layout with valid justification	SET-
	(Full 1 Mark for drawing any valid cable layout)	
(iv)	The company wants to schedule an online conference between the managers of Delhi and Ambala offices. Which protocol will be used for effective voice communication over the Internet ?	
	VoIP	
	OR Any valid protocol used for voice communication	
	(1 Mark for the correct answer)	
(v)	Which kind of network will it be between Delhi office and Ambala office ?	
	WAN	
	(1 Mark for the correct answer)	
(a)	(i) What is the main purpose of seek() and tell() method?	5
	seek() - it is a Python method, which moves the file pointer to the location specified in the parameter.	
	tell() - it is a Python method, which returns the present location of a file pointer.	
	(1 Mark for correct purpose of seek() method with or without syntax/example) (1 Mark for correct purpose of tell() method with or without syntax/example)	
	 (ii) Consider a binary file, Cinema.dat containing information in the following structure: [Mno, Mname, Mtype] Write a function, search_copy(), that reads the content from the file Cinema.dat and copies all the details of the "Comedy" movie type to file named movie.dat. 	
	<pre>import pickle def search_copy(): try: F1=open("Cinema.dat","rb") F2=open("movie.dat","wb") Data1=pickle.load(F1) Data2=[] for D in Data1: if D[2]=="Comedy": Data2.append(D) pickle.dump(Data2,F2) F1.close() F2.close() except: print("File not found!")</pre>	
	(V)	Any other cable layout with valid justification (Full 1 Mark for drawing any valid cable layout) (iv) The company wants to schedule an online conference between the managers of Delhi and Ambala offices. Which protocol will be used for effective voice communication over the Internet ? VoIP OR Any valid protocol used for voice communication (1 Mark for the correct answer) (v) Which kind of network will it be between Delhi office and Ambala office ? WAN (1 Mark for the correct answer) (a) (i) What is the main purpose of seek () and tell() method ? seek() - it is a Python method, which moves the file pointer to the location specified in the parameter. tell() - it is a Python method, which returns the present location of a file pointer. (ii) Consider a binary file, Cinema.dat containing information in the following structure : [IMmor, Mame, Mtype] Write a function, search_copy(), that reads the content from the file cinema.dat.ad copies all the details of the "comedy" movie type to file named movie.dat. import pickle def search_copy(): try; fl=copen("comedy": Datal=pickle.load(F1) Datal=pickle.load(F1) Datal=pickle.load(F1) Datal=pickle.load(F1) Datal=pickle.load(F1) Datal=pickle.load(F1) Datal=pickle.loae() </td

Get More Learning Materials Here : 📕



	OR	
	<pre>import pickle def search_copy(): try: F1 = open("Cinema.dat", "rb") F2 = open("movie.dat", "wb") try: while True: Data1=pickle.load(F1) if Data1[2]=="Comedy": pickle.dump(Data1,F2) except: print("Done!") F1.close() F2.close() except: print("File not found!") OR Any other correct variation of the code </pre>	
	 (½ Mark for opening the file Cinema.dat in correct mode) (½ Mark for opening the file movie.dat in correct mode) (½ Mark for reading the content of the file Cinema.dat) (½ Mark for the correct loop) (½ Mark for checking the condition) (½ Mark for writing the required contents into the file movie.dat) Note: Ignore import pickle, F1.close() and F2.close() 	
	OR	
(b)	(i) Give one difference between write() and writeline() function in text file.	5
Ans	<pre>write function - writes the content of a string onto a text file object . writelines function - writes the content of a list of strings onto a text file object . Example: file.write("Hello World") file.writelines(["Hello","World"])</pre>	
	(2 Mark for writing the difference between write and writelines with/without using examples) OR (1 Mark for explaining uses of write function using/without using example) (1 Mark for explaining uses of writelines function using/without using example)	

Page 20/23

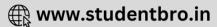


SET-4

		(Series &RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
		Note: As there is no function writeline, give full 2 Marks for correctly explaining the write function only.	
		<pre>(ii) A Binary file, "Items.dat" has the following structure : [Icode, Description, Price]</pre>	
		Where Icode - Item code Description - Detail of item Price - Price of item	
		Write a function Add_data(), that takes Icode, Description and Price from the user and writes the information in the binary file "Items.dat".	
		<pre>import pickle def Add_data(): F=open("Items.dat","wb") Icode=input("Icode:") Description=input("Detail of item:") Price=float(input("Price:")</pre>	
		<pre>pickle.dump([Icode,Description,Price], F) F.close()</pre>	
		OR	
		Any other correct variation of the code (1 Mark for opening the file items.dat in correct mode) (1 Mark for correctly accepting the content from user) (1 Mark for the correctly using dump command to write the content on file)	
		Note: Ignore import pickle and F.close()	
35	(a)	(i) Define the term foreign key with respect to RDBMS.	5
	Ans	Foreign Key - A column/attribute in a table/relation, which acts as a Primary Key in another table/relation is known as a Foreign Key. It acts as a cross-reference between two tables as it references the primary key of another table, thereby establishing a link between them to help in producing relevant results.	
		(1 Mark for the correct definition with or without example)	
		 (ii) Sangeeta wants to write a program in Python to delete the record of a candidate "Raman" from the table named Placement in MySQL database, Agency: The table Placement in MySQL contains the following attributes: CName - String Dept - String Place - String Salary - integer 	

Page 21/23





	_	(Series & RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
		Note the following to establish connectivity between Python and MySQL:	
		• Username - root	
		• Password - job	
		 Host - localhost 	
		Help Sangeeta to write the program in Python for the above mentioned task.	
Ans		import pymysql as pm	
		# OR Option 2	
		import mysql.connector as pm	
		DB=pm.connect(host="localhost",user="root",\	
		password="job",database="Agency")	
		MyCursor=DB.cursor()	
		QRY="DELETE FROM PLACEMENT WHERE CNAME='Raman'"	
		MyCursor.execute(QRY)	
		DB.commit()	
		(½ mark for importing with any correct module/method)	
		(1 mark for connect() method with correct parameters)	
		(1/2 mark for creating the cursor)	
		(1 mark for the correct SQL command - ½ Mark for DELETE and ½ Mark for	
		WHERE)	
		$(\frac{1}{2})$ mark for correctly executing the query QRY)	
		(½ mark for correct use of commit)	
		OR	
	(b)	(i) Give one difference between CHAR and VARCHAR datatype in MySQL.	5
		CHAR has a fixed size, but VARCHAR has a variable size.	
		OR	
		CHAR data type stores data of fixed length,	
		whereas the VARCHAR data type stores variable format data.	
		OR	
		VARCHAR is more memory efficient than CHAR.	
	Ans	(1 Mark for the any one correct difference with or without example)	
		(ii) Dehim works to write a program in Duthen to incert the following record in the	
		(ii) Rahim wants to write a program in Python to insert the following record in the table named Bank Account in MySQL database, Bank :	
		• Accno - integer	
		• Cname - string	
		• Atype - string	
		• Amount - float	
		Note the following to establish connectivity between Python and MySQL :	
		• Username - admin	
	1	• Password - root	
		• Host - localhost	

Page 22/23

Get More Learning Materials Here : 📕



	(Series & RQPS/S Sub Code: 083 Q.P. Code 91/S)	SET-4
Ans	import pymysql as pm	
	<pre># OR Option 2 import mysql.connector as pm</pre>	
	DB=pm.connect(host="localhost",user="admin",\	
	<pre>password="root", database="Bank")</pre>	
	MyCursor=DB.cursor()	
	Accno=int(input("Accno:"))	
	Cname=input("Cname:")	
	Atype=input("Atype:")	
	Amount=float(input("Amount:")) QRY="INSERT INTO BANK ACCOUNT VALUES	
	(%s,'%s','%s',%s) "% (Accno, Cname, Atype, Amount)	
	# OR Option 2	
	QRY="INSERT INTO BANK_ACCOUNT VALUES	
	({},'{}','{}','{}''.format(Accno,Cname,Atype,Amount)	
	# OR Option 3 QRY="INSERT INTO BANK ACCOUNT VALUES (" + str(Accno) + ",'"	
	+ Cname + "','" + Atype + "'," + str(Amount) + ")"	
	MyCursor.execute(QRY)	
	DB.commit()	
	OR	
	Any other correct variation of the code	
	(¹ / ₂ mark for importing any correct module/method pymysql or any other) (¹ / ₂ mark for correct connect())	
	(1/2 mark for correctly creating cursor())	
	(½ mark for correctly taking input from the user)	
	(1 mark for the correct SQL command - ½ Mark for INSERT and ½ Mark for VALUES)	
	$(\frac{1}{2})$ mark for correctly executing the query QRY)	
	(1/2 mark for commit())	

Get More Learning Materials Here : 📕

Page 23/23



