		Sample Question Paper - 2 Class: XII Session: 2023-24 Computer Science (083) estion paper contains 35 questions.	Maximum Marks: 70
	 Section A, consists of Section B, consists of Section C, consists of Section D, consists of Section E, consists of 	18 questions (1 to 18). Each question 7 questions (19 to 25). Each question 5 questions (26 to 30). Each question 2 questions (31 to 32). Each question 3 questions (33 to 35). Each question stions are to be answered using Pyth	n carries 2 Marks. n carries 3 Marks. n carries 4 Marks. n carries 5 Marks.
1.	State true or false:	Section A	[1]
	Python loops can also ha	ave else clause.	1-1
2.	Which of the following is a	an advantage of SQL?	[1]
	a) Client/server languag	ge b) High speed	
	c) All of these	d) Easy to learn	
3.	What is the output of follows: 1 = [[4,1],[2,3],[3,5],[6,0.5]		[1]
	a) [[2,3],[3,5],[4,1],[6,0.	5]] b) None of these	
	c) [[0.5,1],[2,3],[3,4],[5,	d) [[6,0.5],[4,1],[2,3]	,[3,5]]
4.	What is the output of the hex(15)	function shown below?	[1]
	a) 0xF	b) 0xf	
	c) 0Xf	d) f	
5.	The virus that uses MS Of	fice suite as its host to replicate is kn	own as? [1]
			Page 1

6.	Which function is used to write all the characters?		
	a) writecharacters()	b) writeall()	
	c) write()	d) writeallchars()	
7.	Which method returns the next row	from the result set as tuple?	[1]
	a) fetchone()	b) rowcount	
	c) fetchall()	d) fetchmany()	
8.	Which statement of SQL provides sta objects?	atements for manipulating the database	[1]
	a) DCL	b) TCL	
	c) DML	d) DDL	
9.	Suppose the content of a text file "R Jack & Jill went up the hill What will be the output of the follow F = open("Rhymes.txt") L = F.readlines() for i in L: S=i.split() print(len(S),end="#")		[1]
	a) 2#	b) 7#	
	c) 3#4#	d) 2#4#	
10.	Which of the following function hea	ders is correct?	[1]
	a) def f(a = 1, b = 1, c = 2):	b) def f(a = 1, b, c = 2):	
	c) def f(a = 1, b = 1, c = 2, d):	d) def f(a = 1, b):	
11.	Which of the following real time exa	imples is based on Insertion sort?	[1]
			Page 2

d) Word Virus

c) Macro Virus

12.	Following set of commands are executed >>> str = "hello" >>> str[:2]	d in shell, what will be the output?	[1]
	a) he	b) llo	
	c) ello	d) hel	
13.	State true or false: A LAN is connected to large geographic	al area.	[1]
14.	Which of the following is not a keyword?	?	[1]
	a) assert	b) nonlocal	
	c) pass	d) eval	
15.	Fill in the blanks: The statement is used with t set by one or more columns.	he aggregate functions to group the result	[1]
16.	The checksum of 0000 and 0000 is	·	[1]
	a) 1110	b) 0111	
	c) 1111	d) 0000	
17.	Assertion (A): We can declare multiple e Reason (R): The try block may contain the exceptions.	exceptions in except statement. The statements which throw different type of	[1]
	a) Both A and R are true and R is the correct explanation of A.	b) Both A and R are true but R is not the correct explanation of A.	
	c) A is true but R is false.	d) A is false but R is true.	
18.		, the file pointer exists at the end of the file. , the file pointer exists at the end of the file.	[1]

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19.			30	ection B		
IJ.	Answe	er:				[2]
(i)	i.	What is a co	mmunication chan	inel?		[1]
	ii.	What is the	difference between	n packet and message	switching?	[1]
(ii))			OR		
	i.	Give the full	form for the follow	ving:		[2]
		i. FM				
		ii. AM				
		iii. NFS				
		iv. FTP				
	Passw	$ extsf{d} o extsf{Admin}$ $ extsf{rord} o extsf{salar34}$ $ extsf{name} o extsf{orde}$				
	ORDN	NUMB	PARTNUMB	NUMBORD	QUOTPRIC	
	12489	9	AX12	11	14.95	
	12489 1249		AX12 BT04	11	14.95 402.99	
		5	+			
	1249!	5	BT04	1	402.99	
21.	1249 1249 1249	5 1 8	BT04 BZ66	1	402.99 311.95	[2]
21.	1249 1249 1249	5 1 8	BT04 BZ66 CX11	1	402.99 311.95	[2]
21.	12499 12499 12498 Pytho	5 1 8 n is dynamic t	BT04 BZ66 CX11 yped. Explain it.	1 1 2	402.99 311.95 57.95	
	12499 12499 12498 Pytho	5 1 8 n is dynamic t are immutable	BT04 BZ66 CX11 yped. Explain it.	1 1 2 OR	402.99 311.95 57.95	ython.
	12499 12499 12499 Pytho	5 1 8 n is dynamic t are immutable	BT04 BZ66 CX11 yped. Explain it. e and mutable type	1 1 2 OR	402.99 311.95 57.95	ython.
22.	12499 12499 12498 Pythol What Answer How) Wh	5 1 8 n is dynamic t are immutable er: w fetchone() n at will the foll bort mysql.cor	BT04 BZ66 CX11 yped. Explain it. e and mutable type nethod is differ from owing code do?	1 2 OR es? List immutable and	402.99 311.95 57.95	ython. [2]

c) A is true but R is false. d) A is false but R is true.

```
db.commit()
         print("Rows affected:", cursor.rowcount)
         db.close()
      Write a program that rotates the elements of a list so that the element at the first
23.
                                                                                                [2]
      index moves to the second index, the element in the second index moves to the
      third index, etc., and the element in the last index moves to the first index.
                                                  OR
      Find the errors in following code and write the correct code.
      def extract lesser (l, v):
      for num in I:
      if:
      less list.append(num)
      Return less_list
       i. Underline the corrections.
      ii. Write the reason!error next to it in comment form.
24.
      Write a function to read the content of a text file "DELHI.txt" and display all those
                                                                                                [2]
      lines on screen, which are either starting with 'D' or 'M'.
                                                  OR
      Write a method in python to read the content from a text file diary.txt line by line and
      display the same on-screen.
25.
      Find the output of the following program:
                                                                                                [2]
      def calcresult ():
        i = 9
        while i > 1:
           if (i \% 2 == 0):
             x = i \% 2
             i = i - 1
           else:
             i = i - 2
             x = i
           print(x**2)
                                             Section C
26.
                                                                                                [3]
      Answer:
```

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cursor.execute(sqll)

f1 = ['Apple', 'Banana', 'apple', 'Banana']
for index in f1:
 if index in fruit:
 fruit [index] += 1
 else:
 fruit[index] =1
 print(fruit)
 print (len(fruit))

(ii) Write a program to sort the list alphabetically in a dictionary.

[1.5]

27. What do you understand by the local and global scope of variables? How can you access a global variable inside the function, if the function has a variable with the same name?

[3]

28. Give output for the following SQL queries as per given table(s):

[3]

Table: FLIGHTS

FL_NO	STARTING	ENDING	NO_FLIGHTS	NO_STOPS
IC301	MUMBAI	DELHI	81	0
IC799	BANGALORE	DELHI	2	1
MC101	INDORE	MUMBAI	3	0
IC302	DELHI	MUMBAI	8	0
AM812	KANPUR	BANGALORE	3	1
IC899	MUMBAI	КОСНІ	1	4
AM501	DELHI	TRIVANDRUM	1	5
MU499	MUMBAI	MADRAS	3	3
IC701	DELHI	AHMEDABAD	4	0

Table: FARES

FL_NO	AIRLINES	FARE	TAX%
IC701	Indian Airlines!	6500	10
MU499	Sahara	9400	5
AM501	Jet Airways	13450	8
IC899	Indian Airlines	8300	4
IC302	Indian Airlines	4300	10
IC799	Indian Airlines	10500	10

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- where STARTING = "DELHI" AND FLIGHTS.FL_NO = FARES.FL_NO.
- ii. SELECT count(distinct ENDING) from FLIGHTS

OR

Gopi Krishna is using a table Employee. It has the following columns:

Code, Name, Salary, Deptcode

He wants to display maximum salary departmentwise. He wrote the following command .

SELECT Deptcode, Max(Salary) FROM Employee;

But he did not get the desired result.

Rewrite the above query with necessary changes to help him get the desired output.

29. A file phonebook.dat stores the details in the following format:

[3]

Name Phone

Jivin 86666000

Kriti 101001

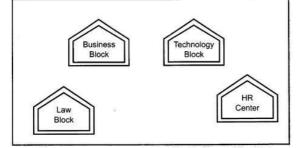
Write a program to edit the phone numbers of Arvind in the file. If there is no record for Arvind report error.

30. Write a function that receives two tuples and creates a third that contains all elements of the first followed by all elements of the second.

Section

3 . Quick Learn University is setting up its Academic blocks at Prayag Nagar and planning to set up a network. The university has 3 academic blocks and one Human Resource Center as shown in the diagram below:





Center to center distances between various blocks is as follows:

Law Block to Business Block	40 m
Law Block to Technology Block	80 m
Law Block to HR Center	105 m
Business Block to Technology Block	30 m
Business Block to HR Center	35 m
Technology Block to HR Center	15 m

Number of Computers in each of the Blocks/Center is as follows:

Law Block	15
Technology Block	40
HR Center	115
Business Block	25

- i. Suggest the most suitable place (i.e., Block/Center) to install the server of this university with a suitable reason.
- ii. What type of network will be formed if all these blocks are connected?
- iii. Which device you will suggest to be placed/installed in each of these blocks/center to efficiently connect all the computers within these blocks/center?
- iv. The university is planning to connect its admission office in the closest big city, which is more than 250 km from university, which type of network out of LAN, MAN or WAN will be formed? Justify your answer.
- 3 . Write SQL queries for (i) to (iv) and find outputs for SQL queries (v) to (viii), which are based on the tables:

2

DVD

DCODE	DTITLE	DTYPE
F101	Henry Martin	Folk
CI 02	Dhrupad	Classical
C101	The Planets	Classical
F102	Universal Soldier	Folk
R102	A day in the life	Rock

[5]

MEMBER

MID	NAME	DCODE	ISSUEDATE
101	AGAM SINGH	R102	2017-11-30
103	ARTH JOSEPH	F102	2016-12-13
102	NISHA HANS	C101	2017-07-24

- i. To display all details from the table MEMBER in descending order of ISSUEDATE.
- ii. To display the DCODE and DTITLE of all Folk Type DVDs from the table DVD.
- iii. To display the Dtype and number of DVDs in each DTYPE from the table DVD.
- iv. To display all NAME and ISSUEDATE of those members from the table MEMBER who have DVDs issued (i.e., ISSUEDATE) in the year 2017.
- v. SELECT MIN (ISSUEDATE) FROM MEMBER;
- vi. SELECT DISTINCT DTYPE FROM DVD;
- vii. SELECT D.DCODE. NAME, DTITLE: FROM DVD D, MEMBER M WHERE D.DCODE=M.DCODE;
- viii. SELECT DTITLE FROM DVD WHERE DTYPE NOT IN ("Folk", "Classical");

OR

Consider the following tables CABHUB and CUSTOMER. Write SQL commands for the following statements.

Table: CABHUB

Vcode	VehicleName	Make	Color	Capacity	Charges
100	Innova	Toyota	WHITE	7	15
102	SX4	Suzuki	BLUE	4	14
104	C Class	Mercedes	RED	4	35
105	A-Star	Suzuki	WHITE	3	14
108	Indigo	Tata	SILVER	3	12

abic. Cool Civillia

CCode	CName	Vcode
1	Hemant Sahu	101
2	Raj Lai	108
3	Feroza Shah	105
4	Ketan Dhal	104

i. To display the names of all the white colored vehicles.

3

- ii. To display name of vehicle, make and capacity of vehicles in ascending order of their seating capacity.
- iii. To display the highest charges at which a vehicle can be hired from CABHUB.
- iv. To display the customer name and the corresponding name of the vehicle hired by them

3 . Answer: [5]

(i) i. What do you understand by the terms Primary Key and Degree of a relation in relational database?

ii. Give output for following SQL queries as per given table(s): [4]

Table : CLUB

COACH- ID	COACHNAME	AGE	SPORTS	DATEOFAPP	PAY	SEX
1.	KUKREJA	35	KARATE	27/03/1996	1000	М
2.	RAVINA	34	KARATE	20/01/1998	1200	F
3.	KARAN	34	SQUASH	19/02/1998	2000	М
4.	TARUN	33	BASKETBALL	01/01/1998	1500	М
5.	ZUBIN	36	SWIMMING	12/01/1998	750	М

	7.	ANKITA	39	SQUASH	22/02/1998	2200	F
	8.	ZAREEN	37	KARATE	22/02/1998	1100	F
	9.	KUSH	41	SWIMMING	13/01/1998	900	М
1	LO.	SHAILYA	37	BASKETBALL	19/02/1998	1700	М

- i. SELECT COUNT (DISTINCT SPORTS) FROM CLUB;
- ii. SELECT MIN(AGE) FROM CLUB WHERE SEX = "F";
- iii. SELECT AVG(PAY) FROM CLUB WHERE SPORTS = "KARATE";
- iv. SELECT SUM(PAY) FROM CLUB WHERE DATEOFAPP > {31/01/98};

(ii) OR

- i. In SQL, write the name of the aggregate function which will display the cardinality of a table. [1]
- ii. Consider the following tables STUDENT and STREAM. Write SQL commands [4] for the statements (i) to (v).

TABLE: STUDENT

SCODE	NAME	AGE	STRODE	POINTS	GRADE
101	Amit	16	1	6	NULL
102	Arjun	13	3	4	NULL
103	Zaheer	14	2	1	NULL
105	Gagan	15	5	2	NULL
108	Kumar	13	6	8	NULL
109	Rajesh	17	5	8	NULL
110	Naveen	13	3	9	NULL
113	Ajay	16	2	3	NULL
115	Kapil	14	3	2	NULL
120	Gurdeep	15	2	6	NULL

TABLE: STREAM

STRCDE	STRNAME
1	SCIENCE+COMP
2	SCIENCE+BIO
3	SCIENCE+ECO

4	COMMERCE+MATHS
5	COMMERCE+SOCIO
6	ARTS+MATHS
7	ARTS+SOCIO

- i. To display the name of streams in alphabetical order from table STREAM.
- ii. To display the number of students whose POINTS are more than 5.
- iii. To update GRADE to 'A' for all those students, who are getting more than 8 as POINTS.
- iv. ARTS+MATHS stream is no more available. Make necessary change in table STREAM.
- v. To display student's name whose stream name is science and computer.

Section

3. Write a program to print a string in reverse order.

[4]

3 . Consider the following tables ACTIVITY and COACH and answer the following parts of this question :

[4]

4 Table: ACTIVITY

5

Acode	ActivityName	Stadium	ParticipantsNum	PrizeMoney	ScheduteDate
1001	Relay 100×4	Star Annex	16	10000	23-Jan-04
1002	High jump	Star Annex	10	12000	12-Dec-03
1003	Shot Put	Super Power	12	8000	14-Feb-04
1005	Long Jump	Star Annex	12	9000	01-Jan-04
1008	Discuss Throw	Super Power	10	15000	19-Mar-04

Table: COACH

Pcode	Name	Acode
1	Ahmad Hussain	1001
2	Ravinder	1008
3	Janila	1001
4	Naaz	1003

Give the output of the following SQL queries:

- i. SELECT COUNT (DISTINCT ParticipantsNum) FROM ACTIVITY;
- ii. SELECT MAX(ScheduleDate), MIN(ScheduleDate) FROM ACTIVITY;
- iii. SELECT Name, ActivityName FROM ACTIVITY A, COACH C WHERE A.Acode = C.Acode AND A.ParticipantsNum = 10;
- iv. SELECT DISTINCT ParticipantsNum FROM ACTIVITY;

Section A Answers

1. (a) True

Explanation: True

2.

(c) All of these

Explanation: All of these

3. **(a)** [[2,3],[3,5],[4,1],[6,0.5]]

Explanation: Sorting is done by giving preference to first value of each list.

4.

(b) 0xf

Explanation: The function hex() is used to convert the given argument into its hexadecimal representation, in lower case. Hence the output of the function hex(15) is 0xf.

5.

(c) Macro Virus

Explanation: These viruses infect and replicate using the MS Office program suite, mainly MS Word and MS Excel. The virus inserts unwanted words or phrases in the document.

6.

(c) write()

Explanation: The write() method writes specified text to the file.

7. **(a)** fetchone()

Explanation: fetchone()

8.

(c) DML

Explanation: DML (Data Manipulation Language)

9.

(c) 3#4#

Explanation: 3#4#

10. (a) def f(a = 1, b = 1, c = 2):

Explanation: def f(a = 1, b = 1, c = 2):

11.

(d) arranging a pack of playing cards

Explanation: arranging a pack of playing cards

12. **(a)** he

Explanation: str[:2] prints only the values at index 0 and 1 (as 2 is exclusive) of string and hence the answer is "he".

Explanation: LAN, consists of a computer network at a single site, typically an individual office building.

14.

(d) eval

Explanation: eval is not a keyword in python.

15. 1. GROUP BY

16.

(c) 1111

Explanation: 1111, 1's complement arithmetic to get the sum.

17. (a) Both A and R are true and R is the correct explanation of A.

Explanation: We can declare multiple exceptions in except statement since the try block may contain statements which throw different type of exceptions. We can also specify an else block along with the try-except statement, which will be executed if no exception is raised in the try block and Finally block, which always gets executed either exception is generated or not.

18.

(d) A is false but R is true.

Explanation: In the case of write mode, the file pointer exists at the beginning of the file as the content of file is removed and file is treated as a new file. In the case of append mode, the file pointer exists at the end of the file as data is added at the end of file.

Section B

19. Answer:

- (i) i. Communication channels mean the connecting cables that link various workstations. There are three basic types of cables.
 - ii. In packet switching, all the packets are stored in the main memory instead of the disk while in message switching, data is stored in the buffer from.

(ii) OR

i. i. FM: Frequency Modulation

ii. AM: Amplitude Modulation

iii. NFS: Network File Server

iv. FTP: File Transfer Protocol

20. import MySQLdb

db=MySQLdb.connect('localhost', 'sales', 'Admin', 'salar345')

cursor= db. cursor (prepared= TRUE)

sql_query= """INSERT INTO order-details (ORDNUMB, PARTNUMB,

NUMBORD, QUOTPRIC) VALUES ('%s', '%s', '%s', '%s')"""

rec_inst= [('12489', 'AX12', '11','14.95'), ('12491', 'ABT04', '1','402.99'), ('12495', 'BZ66',

```
try:
cursor. executemany(sql_query, rec_inst)
print(cursor.rowcount, "Record inserted successfully")
db.commit()
except:
db.rollback()
cursor.close()
db.close()
```

21. A language is dynamically typed if the type is associated with run-time values and not named variables/fields etc. This means that you as a programmer can write a little quicker because you do not have to specify types every time. Python is a dynamically type language. It does not know about the type of the variable until the code is run, so declaration is no use. It stores that value at some memory location and then binds that variable name to that memory container.

We have assigned three values to three variables:

```
>>> a = 10
>>> name = "Neha"
>>> x = 34.6
```

But what types are these variables? Let's use the type() module to find out:

Syntax

type(variable_name)

OR

The immutable types are those that can't be changed after it is created. In Python, the following types are immutable: integers, floating-point numbers, Booleans, strings, tuples.

The mutable types are those whose values can be changed in place. Only three types are mutable in Python, these are lists, dictionaries, and sets.

- 22. Answer:
 - (i) fetchone() method returns the next row from the result set as tuple while fetchall() fetches all the rows of a query result.
 - (ii) It will print the number of rows affected by update statement.

```
23. lis = eval(input ("Enter list:"))
last = lis[-1]
for i in range(len(lis) -1, 0, -1):
lis[i] = lis[i - 1]
lis[0] = last
print(lis)
```

```
<u>less list = []</u> # a list must be defined before being appended
   for num in I:
   if num < v : # (i) wrong indentation, (ii) condition missing with if
   less list.append(num)
   return less_list # (i)wrong indentation, (ii) return must be in lowercase
24. def CountDorM():
   ctr = 0
   with open('DELHI.txt', 'r') as file_obj:
   while True:
   line=file obj.readline()
   if not line: break
   if line[0] == 'D' or line[0] == 'M':
   ctr = ctr + 1
   if count == 0:
   print("no line starts with D or M")
   else:
   print ("Number of lines starting with D or M =",ctr)
   Here, Function CountDorM returns the number of lines starting with D or M in
   "DELHI.txt" file.
                                                 OR
   file = open("diary.txt", "r")
   lines = file.readlines()
   for line in lines:
   print(line)
25. Output
   49
   25
   9
   1
                                            Section C
26. Answer:
   (i) {'Apple' : 1}
      {'Apple' : 1, 'Banana' : 1}
      {'Apple': 1, 'Banana': 1, 'apple': 1}
      {'Apple' : 1, 'Banana' : 2, 'apple' : 1}
      3
   (ii) dict = {
      "L1": [78, 54, 65, 89, 11],
```

```
print ("\n Before sorting:")
for i in dict.items ():
    print(i)
print("\n After sorting:")
for a, b in dict.items():
    dictl = {a.sorted(b)}
    print(dictl)
```

27. A global variable is a variable that is accessible globally. A local variable is one that is only accessible to the current scope, such as temporary variables used in a single function definition.

A variable declared outside of all the functions or in global scope is known as a global variable. A global variable can be accessed inside or outside of the function whereas local variables can be used only inside of the function. If a function has a local variable name as a global variable, then in that function scope, the local variable will hide the global variable with the same name. We can access a global variable having the same name as a local variable by declaring its name with the keyword global, e.g., as global A. Global variables are declared outside any function, and they can be accessed (used) on any function in the program. Local variables are declared inside a function and can be used only inside that function. It is possible to have local variables with the same name in different functions.

28. i. ERROR - Column 'FL_NO' in field list is ambiguous as FL_NO field is present in both the tables we require to qualify the column name by its table name. Assuming the FL_NO field is qualified as FLIGHTS.FL_NO or FARES.FL_NO the output will be:

		, = : :
FL_NO	NO_FLIGHTS	AIRLINES
AM501	1	Jet Airways
IC302	8	Indian Airlines
K707	4	Indian Airlines

ii. 7

OR

```
SELECT Deptcode, Max( Salary ) FROM Employee GROUP BY Deptcode;

29. fp1 = open("phonebook.dat", 'w+')
    list = " "
    while list:
    pos = ftell()
    list = fp1.readline ()
    name, phone = list.split ()
```

```
fp.seek (pos,o)
  fp.write (name)
  fp.write (" ")
  fp.write (phone)
  fp.close ()
  break
  else:
    print ("Name\"Arvind\" not found")
30. def appendTuple(tuple1, tuple2):
    """This function will join two tuples into one"""
  tuple3 = tuple1 + tuple2
  return tuple3
```

Section

- 3 . i. The most suitable place to install the server is HR Centre because it has maximum number of computers
 - ii. LAN D
 - ₁ iii. Switch
 - iv. WAN as it is another city . LAN and MAN cannot cover 250 km.
- 3 . i. SELECT * FROM MEMBER ORDER BY ISSUEDATE DESC
 - ii. SELECT DCODE, DTITLE FROM DVD WHERE DTYPE = 'Folk'
 - iii. SELECT DTYPE, COUNT(*) FROM DVD GROUP BY DTYPE
 - iv. SELECT NAME, ISSUEDATE FROM MEMBER, WHERE ISSUEDATE LIKE '2017%'
 - v. MIN (ISSUEDATE) 2016-12-13
 - vi. DISTINCT (DTYPE)

Folk

Classical

Rock

vii.	DCODE	name	DTITLE
	R102	AGAM SINGH	A day in the life
	F102	ARTH JOSEPH	Universal Soldier
	C101	NISHA HANS	The Planets

OR i. SELECT VehicleName FROM CABHUB WHERE Color = "WHITE"; ii. SELECT VehicleName, Make, Capacity FROM CABHUB ORDER BY Capacity; iii. SELECT Max(Charges) FROM CABHUB; iv. SELECT CName, VehicleName FROM CUSTOMER, CABHUB WHERE CUSTOMER. Vcode = CABHUB.Vcode; 3 . Answer: i. The primary key is a column (or columns) in a table that uniquely identifies each row. A primary key value is unique and cannot be null. **Degree.** The number of attributes in a relation is called its degree. 3 ii. OUTPUT i. 4 ii. 34 iii. 1100 iv. 7800 (ii) OR i. The aggregate function that can display the cardinality (number of rows) of a table in SQL is COUNT. ii. i. SELECT STRNAME FROM STREAM ORDER BY STRNAME; ii. SELECT COUNT(*) FROM STUDENT WHERE POINTS > 5; iii. UPDATE STUDENT SET GRADE = 'A' WHERE POINTS > 8; iv. DELETE FROM STREAM WHERE STRNAME='ARTS + MATHS'; v. SELECT NAME FROM STUDENT WHERE STUDENT.STRCDE = STREAM. STRCDE AND STRNAME="SCIENCE + COMP";

Section D

3 . To print a string in Reverse order:-

def pushstack(stack, ch):
stack, append(ch)
top=len(stack)-1

4 return
def popstack (stack):
if isempty(stack):
return

A day in the life

```
top=len(stack)-1
   for a in range(top, -1, -1)
   print stack[a],
   return
   def isempty (stack):
   if stack==[]:
   else:
   return True
   else:
   return False
   #.....main.....
   str=[]
   top=None
   str=raw_input("Enter a string")
   while a in str:
   pushstack(stk, str)
print "-----" Reverse-----"
popstack(stk)
```

3 . i. 3

ii.	MAX(ScheduleDate)	MIN(ScheduleDate)
	19-Mar-04	12-Dec-03 *
5 iii.	NAME	ACTIVITYNAME
	Ravinder	Discuss Throw

iv. ParticipantsNum

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