

Sample Paper - 11

- | | | | |
|--------------|---------|-----------|-----------|
| Q1 False | Q2 (B) | Q3 (A) | Q4 (A) |
| Q5 (D) * | Q6 (B) | Q7 NULL | Q8 (C) * |
| Q9 (B) | Q10 + | Q11 (C) | Q12 (B) |
| Q13 Repeater | Q14 (A) | Q15 (D) * | Q16 (B) * |
| Q17 (A) | Q18 (B) | | |

- Q5 → Correct the code as → for i in range(len(L1)):
- Q7 → ALTER TABLE employee DROP COLUMN salary;
- Q15 → TOTAL() is not a function in SQL.
- Q16 → Sequence of parameters should be as same as given in option - B.

```

Q19 def factorial (num):
    fact = 1
    while (num >= 0):
        fact = fact * num
        num = num - 1
    print("_____")

```

Num should num
: is missing
wrong assignment
wrong short hand assignment

| Virus | Worms |
|--|---|
| * Replicates computer files & folders | * Replicates itself |
| * Corrupt the executable files of computer | * Fill up the memory space of computer |
| * Files will not open | * Files will open but computer will be slow down. |

~~Kendriya Vidyalaya~~

Q20 (OR) (Any two differences)

Web Server

- * It is the system that provides services for end users.
- * Stores all websites, database and their connectivity
- * Installed at remote location
- ex: nio, apache

Web Browser

- * It is application software that interacts with server and user.
- * Only provides interface to interact with user and server.
- * Installed at the user's computer -
- ex: chrome, Safari, Mozilla, Firefox, Internet Explorer

Q21

(A) [37, 61, 89] (B) del Lib['Novels']

Q22. UNIQUE

- * It allowed only one value at one time including null
- * Weak constraint for data integrity
- * There may be more than one unique constraint in a table

PRIMARY KEY

- * It allowed only one value at one time but not allow null values also.
- * Strongest constraint for data integrity
- * Only one p. key constraint allowed in a table

Q23 (A) FTP - File Transfer Protocol
GSM - Global System for Mobile Communications

(B) MAN (Metropolitan Area Network)

(Because the both offices are located in same city)

Q24 cbse # 3134 EXAMS

OR 57

{(1,2,3):12, (4,5,6):20, (1,2):25}

Q25 Degree \rightarrow Number of columns (Attributes) in Table
Cardinality, Rows (Tuples)

OR DDL \rightarrow Data Definition Language
ex. CREATE, ALTER, DROP

DML \rightarrow Data Manipulation Language
ex. INSERT, SELECT, UPDATE

Q26 (A)

| <u>E-Code</u> | <u>Ename</u> | <u>D. Department</u> |
|---------------|--------------|----------------------|
| M01 | Bhavya | Marketing |
| S01 | Mehul | Sales |
| A05 | Vansh | Accounts |
| H03 | Pallavi | HR |

(B) (i) P_name Count (*)

| | |
|----------------|---|
| Calcium Powder | 1 |
| Face wash | 2 |
| Bath Soap | 1 |
| Shampoo | 1 |

(ii) max(price) Min(price)
 120 40

(iii) Product-Prname Client-Name
 Face wash Total Health

(iv) P.Pid P-Prname C-Prname C-city
 F005 Face wash Total health Mumbai

Q27

```
def COUNT_UPPER():
data f = open("CONTENT.TXT", 'rt')
data = f.read()
count = 0
for ch in data:
    if(ch.isupper()):
        count += 1
Print("No of upper case in file = ", count)
```

```

Q27- (OR) def COUNT_WORD():
    f = open("DLEDGE.TXT", 'rt')
    data = f.read()
    count = 0
    for w in data:
        if (w == 'country'):
            count += 1
    print("Occurrence of word 'country' = ", count)

```

Q28 (A) (i) COUNT(DISTINCT(make))

4

(ii) MAX(charges)

20

MIN(charges)

14

(iii) count(*)

make

GROUP BY
is not given
in query.

1
1
1
1
1

Suzuki
Jals
toyota
Suzuki
Hyundai

(iv) carname

Innova

(B)

SHOW DATABASES ;

Q29

```
def R_shift(Arr, n):
```

```
    list = []
```

```
    print("list before shift", Arr)
```

```
    for i in range(-n, 0, 1):
```

```
        list.append(Arr[i])
```

```
    for i in range(0, len(Arr)-n):
```

```
        list.append(Arr[i])
```

```
    print("After shift =", list)
```

```
R_shift([10, 20, 30, 40, 50, 60], 3)
```

Q30

```
def Push_Rec(Book):
```

```
    Bname = input("Enter Book name: ")
```

```
    Author = input("Enter Author name: ")
```

```
    price = int(input("Enter price: "))
```

```
    if (price > 500):
```

```
        Book.append([Bname, Author, price])
```

```
    else:
```

```
        print("price is less than 500, can't push")
```

```
def POP_Rec(Book):
```

```
    if (Book == []):
```

```
        print("Stack Underflow")
```

```
    else:
```

```
        while (len(Book) > 0):
```

```
            print(Book.pop())
```

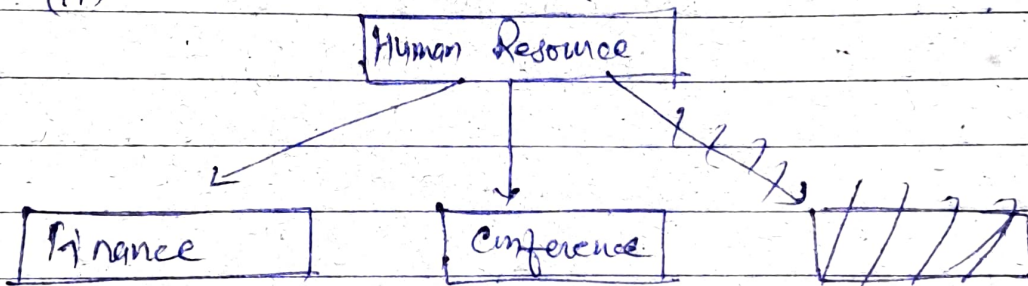
Q30 (or)

```
def Push(item):  
    stack = []  
    count = 0  
    for elm in item:  
        if (elm[1] < 40):  
            stack.append(elm[0])  
            count += 1  
    print("No. of element in stack =", count)
```

Q31 (i) ^{Human Resource} ~~Conference~~ block

(Because there are maximum no. of computers)

(ii)



(iii) (b) Satellite link

(iv) Hub/Switch :- At every block to connect multiple computers

Repeater :- Use in between two blocks or at every block to increase (amplify) the weak signals in strong signals.

- (v) VoIP -> Voice over Internet Protocol (voice chat)
- SIP -> Session Initiation Protocol (video chat)
- IRC -> Internet Relay chat (text/msg chat)

Q32 (A) output 21@ 12@

(B)

Statement-1 \Rightarrow mycursor = mycon.cursor()

Statement-2 \Rightarrow mycursor.execute("select * from employee")

Statement-3 \Rightarrow mydata = mycursor.fetchall()

Q32 (OR)

(A)

#

\$

\$\$

\$\$\$

##

\$

\$\$

\$\$\$

###

\$

\$\$

\$\$\$

(B)

Statement-1

mycursor = mycon.cursor()

Statement-2

mycursor.execute("py-Str")

Statement-3

mycon.commit()

Q33

header object in csv file: - It is an object that reads the data from csv file only. It can create by using file pointer and the csv module of python as given below

```
import csv
```

```
f = open("ABC.csv", 'r')
```

```
headobj = csv.reader(f)
```

Here, csv is module

- f is file pointer that opens the file

- headobj is the header object

☺

③ import csv

def AddUser():

f = open("Users.csv", 'w')

write_obj = csv.writer(f)

user = input("Enter user name")

pswd = input("Password")

Rec = [user, pswd]

write_obj.writerow(Rec)

def Search():

f = open("Users.csv", 'r')

header_obj = csv.reader(f)

~~for Rec in header_obj:~~

ID = ~~input~~input("Enter user ID to search")

for Rec in header_obj:

if (Rec[0] == ID):

print(Rec[1])

33

Q.33 (OR) A

CSV file → Comma separated values

→ A file that looks like text file.

→ data stored in human readable format or ASCII format.

→ Easy to handle and operate huge amount of data.

→ It requires, import csv module

③ import csv

def WriteCSV():

f = open("ABC.csv", 'w')

wr_obj = csv.writer(f)

Rollno = int(input("Enter Rollno:"))

```
name = input("Enter name")
marks = int(input("Enter marks"))
Rec = [Rollno, name, marks]
w-obj = writerow(Rec)
```

writeCSV() # calling to function

```
def ReaderCSV():
    f = open("ABC.csv", 'r')
    r-obj = csv.reader(f)
    for Rec in r-obj:
        print(Rec[0], Rec[1], Rec[2])
```

ReaderCSV() # calling function

Q34 (i) Grade

(ii) Degree = 5 Cardinality = 5

(iii) (a) UPDATE GAMES

```
SET PrizeMoney = PrizeMoney + (0.2 * PrizeMoney);
```

(b) SELECT CName FROM GAMES

```
WHERE CName LIKE 'C%';
```

(OR)

(A) ALTER TABLE GAMES

```
ADD NoOfPlayers INT();
```

(B) SELECT SUM(PrizeMoney) FROM GAMES;

Q35

Statement 1 \Rightarrow import pickle

Statement 2 \Rightarrow fin = open("student.dat", 'rb')

Statement 3 \Rightarrow ~~for~~ rec = pickle.load(fin)

Statement 4 \Rightarrow if (rec[0] == rno):