Practical Marks Distribution

S.N.	Area	Marks (Total=30)
1	**Python program (60% logic + 20% documentation + 20% code quality)**	**7**
2	**Small Python program that sends a SQL query to a database and displays the result.**	
	A sub program can be provided.	**5**
3	**Report file:**	**7**
	(Minimum 20 Python programs. Out of this at least 4 programs should send SQL commands to a database and retrieve the result)	
4	**Project**	**8**
	(that uses the concepts that have been learnt in Class 11 and 12)	
5.	**Viva voce**	**3**

AISSCE PRACTICAL EXAMINATION – 2021
SUBJECT: COMPUTER SCIENCE NEW (083)   LANGUAGE   : PYTHON
TIME: 3 HOUR   School Code: 14159   Date: 12-04-2021   MAX. MARKS: 30

Question-1   **[07 Marks]**

A binary file "STUDENT.DAT" has structure (Adm_Num, Name, Percentage). Write a function CountRecord() in Python that would read contents of the file "STUDENT.DAT" and display the details of those students whose percentage is above 75. Also display the number of students scoring above 75%.

Question-2   **[05 Marks]**

Write function to establish the connection between python and SQL and also write code for passing SQL query to display the records of **Cricket** player in python IDLE.

Details of connection is as below.

Database: Examination,   host=localhost,   user=root   password=cbse   Table name=Player

StudentNo	Class	Name	Game	Grade
10	7	Tina	Cricket	B
11	8	Kamal	Tennis	A
12	7	Divya	Cricket	B
13	7	Vimal	Tennis	C
14	9	Pooja	Basketball	A
15	10	Shourya	Cricket	A

Question 3. Report File + viva   **(7 Marks)**

Question 4. Project   **(8 Marks)**

Question 5. Viva   **(3 Marks)**

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Question-1

```python
import pickle
def CountRecord():
        fobj=open("STUDENT.DAT" , 'rb')
        num=0
        try:
                while True:
                        record=pickle.load(fobj)
                        if (record[2] > 75):
                                print(record[0]," ", record[1]," ", record[2])
                                num=num+1
        except:
                fobj.close()
                return(num)
count=CountRecord()
print("Number of Record scoring above 75% are: ", count)
```

Question-2

```python
def connection():
                import mysql.connector as cnt

                mydb=cnt.connect(
                                host="localhost",
                                user="root",
                                password="cbse",
                                database="Examination"
                                )
                mycursor=mydb.cursor()

                if mydb.is_connected():
print("Connection Successful")
                else:
                        print("Connection Failed")

# Code to pass SQL Query and display result of table: Player
                mycursor.execute("select * from Player where game="Cricket")
                for rec in mycursor:
                print(rec)
                print(mycursor.rowcount," Rows Selected")
```

Output:

StudentNo	Class	Name	Game	Grade
10	7	Tina	Cricket	B
12	7	Divya	Cricket	B
15	10	Shourya	Cricket	A