

CBSE BOARD PRACTICAL EXAM

SESSION : 2020-21

SUBJECT : COMPUTER SCIENCE(083)

CLASS XII

PRACTICAL GUIDELINES

4. Practical

S. No.	Area	Marks (Total=30)
1	Lab Test: 1. Python program (60% logic + 20% documentation + 20% code quality) 2. Small Python program that sends a SQL query to a database and displays the result. A stub program can be provided.	7 5
2	Report file: Minimum 20 Python programs. Out of this at least 4 programs should send SQL commands to a database and retrieve the result	7
3	Project (that uses the concepts that have been learnt in Class 11 and 12)	8
4	Viva voce	3

SET-1

Q1: Create a Binary File **PRODUCT.DAT** storing information Product Code, Product Name and Qunatity. Write an interactive menu driven program to perform the following operations: 7

1. Add records
2. Search record (Display records with quantity >500Rs)
3. Display records
4. Exit

Q2: Create a Product table in MySQL storing Product Code, Product Name and Qunatity. Store 5 records in it.

Write a Python program that will display all products with product name starting from **A** in **PRODUCT** table. 5

Use the following Stub for your reference

```
Import mysql.connector as m
```

```
con=m.connect(host='localhost', user='root', password="", database="")
```

```
cur=con.cursor()
```

```
cur.execute("use Product")
```

SET-2

Q1: Create a Text File **EXAM.TXT**. Write an interactive menu driven program to perform the following operations: 7

1. Count the number of words ending with "ing"
2. Count the number of lines beginning with "The"
3. Count the number of characters
4. Exit

Q2: Create a **Stationary** table in MySQL storing Stationary Id, Name and Cost. Store 5 records in it.

Write a Python program that will delete all items with cost greater than 50 Rs in **Stationary** table. 5

Use the following Stub for your reference

```
Import mysql.connector as m
```

```
con=m.connect(host='localhost', user='root', password="", database="")
```

```
cur=con.cursor()
```

```
cur.execute("use Stationary")
```

SET-3

Q1: Create a CSV File **EMPLOYEE.DAT** storing information Employee Code, Employee Name and Salary. Write an interactive menu driven program to perform the following operations: 7

1. Add records
2. Search record (Input Name and display the concerned record)
3. Display records
4. Exit

Q2: Create an **Employee** table in MySQL storing Employee Code, Employee Name and Salary. Store 5 records in it.

Write a Python program that will increase all salary of all employees with salary <50000 by 10000 in **EMPLOYEE** table. 5

Use the following Stub for your reference

```
Import mysql.connector as m
con=m.connect(host='localhost', user='root', password="", database="")
cur=con.cursor()
cur.execute("use Employee")
```

SET-4

Q1: Write a Menu Driven Python Program to perform different operations on STACK containing details of Books like Book No., Book name, Author name. 7

The menu shows the following options:

1. Push
2. Pop
3. Display
4. Exit

Q2: Create a **Book** table in MySQL storing Book No., Book name, Author name. Store 5 records in it. Write a Python program that will add 2 new book details. 5

Use the following Stub for your reference

```
Import mysql.connector as m
con=m.connect(host='localhost', user='root', password="", database="")
cur=con.cursor()
cur.execute("use Book")
```