# CLASS 12 – COMPUTER SCIENCE SESSION 2022-23

**BOARD PRACTICAL PAPER**

**SET 1**

# MM: 30 DURATION :3 Hrs.

**Q1.** Write the Python functions for the following: [5]

* Create a text file with some data to it.
* Read and display
  + Number of words present in the text file.
  + Display all data of text file after changing case of each character.
  + Display the number words starting with capital letter.

**Q2.** Connectivity question [5]

1. In SQL create a table EMPLOYEE (empno, empname, salary) and add two records.
2. Implement a python program using connectivity
   1. add two more records in table
   2. display all the data from the table.
   3. display the record by taking empno from user.

Q3. Consider the following tables Trainer and Course. Write SQL queries for the given questions [5]

Table : TRAINER

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TID | TNAME | CITY | HIREDATE | SALARY |
| 101 | Sunaina | Mumbai | 1998-10-15 | 90000 |
| 102 | Anamika | Delhi | 1994-12-24 | 80000 |
| 103 | Deepti | Chandigarh | 2001-12-21 | 82000 |
| 104 | Meenakshi | Delhi | 2002-12-25 | 78000 |
| 105 | Richa | Mumbai | 1996-01-12 | 95000 |
| 106 | Maniprabha | Chennai | 2001-12-12 | 69000 |

Table : COURSE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CID | CNAME | FEES | STARTDATE | TID |
| C201 | AGDCA | 12000 | 2018-07-02 | 101 |
| C202 | ADCA | 15000 | 2018-07-15 | 103 |
| C203 | DCA | 10000 | 2018-10-01 | 102 |
| C204 | DDTP | 9000 | 2018-09-15 | 104 |
| C205 | DHN | 20000 | 2018-08-01 | 101 |
| C206 | O LEVEL | 18000 | 2018-07-25 | 105 |

1. Display the Trainer Name, City & Salary in descending order of their Hiredate.
2. To display the TNAME and CITY of Trainer who joined in 2001 and salary is >=70000 and <=80000 .
3. To display number of Trainers from each city.
4. To increase the fees of the course by 10% for Delhi
5. Display the Trainer Name, City, hiredate and Salary of the trainers whose name starts with M.

# Q3. Practical File [5]

**Q4. Project File [5]**

# Q5. Viva [5]

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# BOARD PRACTICAL PAPER

**SET 2**

# MM: 30 DURATION :3 Hrs.

**Q1.** Write a program to implement the following functions for the binary file using PICKLE method . Considering the list of employees (empno, empname, salary) :

i. Append records ii. Read the entire file iii. Search the specific record [5]

**Q2.** Connectivity question [5]

1. In SQL create a table ITEM (itemno, itemname, price) and add two records.
2. Implement a python program using connectivity
   1. add two more records in table
   2. display all the data from the table.
   3. display the record by taking itemno from user.

Q3. Consider the following tables Trainer and Course. Write SQL queries for the given questions [5]

**Table : TRAINER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TID | TNAME | CITY | HIREDATE | SALARY |
| 101 | Sunaina | Mumbai | 1998-10-15 | 90000 |
| 102 | Anamika | Delhi | 1994-12-24 | 80000 |
| 103 | Deepti | Chandigarh | 2001-12-21 | 62000 |
| 104 | Meenakshi | Delhi | 2002-12-25 | 78000 |
| 105 | Richa | Mumbai | 1996-01-12 | 95000 |
| 106 | Maniprabha | Chennai | 2001-12-12 | 69000 |

**Table : COURSEFEE**

|  |  |
| --- | --- |
| CITY | FEES |
| Mumbai | 12000 |
| Delhi | 15000 |
| Chandigarh | 10000 |
| Chennai | 19000 |

1. Display the Trainer Name, City & Salary in ascending order of Salary.
2. To display the TNAME, Bonus for each employee where Bonus is 10% of salary.
3. To display Maximum and minimum Hiredate.
4. To display number of employees from each city whose salary is > 70000
5. Display the Trainer Name, City and Fees of the trainers.

# Q3. Practical File [5]

**Q4. Project File [5]**

# Q5. Viva [5]

# CLASS 12 – COMPUTER SCIENCE SESSION 2022-23

**BOARD PRACTICAL PAPER SET 3**

# MM: 30 DURATION :3 Hrs.

**Q1.** Write a program to implement the following functions for the CSV file method . Considering the list of employees (empno, empname, salary) :

i. Append records ii. Read the entire file iii. Search the specific record [5]

**Q2.** Connectivity question [5]

1. In SQL create a table ITEM (itemno, itemname, price) and add two records.
2. Implement a python program using connectivity
   1. add two more records in table
   2. display all the data from the table.
   3. display the record by taking itemno from user.

Q3. Consider the following table Product. Write SQL queries for the following statements[5]

## TABLE: PRODUCT

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| P\_ID | ProductName | Manufacturer | Price | Quantity | Amount |
| TP01 | Talcom Powder | Ponds | 40 | 50 |  |
| TP02 | Talcom Powder | Johnson | 80 | 60 |  |
| FW06 | FaceWash | Lux | 45 | 20 |  |
| BS01 | Bath Soap | Patanjali | 55 | 40 |  |
| SH06 | Shampoo | Ponds | 120 | 10 |  |
| FW12 | Face Wash | Patanjali | 90 | 20 |  |

1. Update Amount field by Price \* Quantity
2. Display all data in ascending order of amount
3. Display Product name, Amount, discount offered where discount is 10% of Amount if Amount <=5000
4. Display total number of manufacturers.
5. Delete the record whose P\_id is ending with 6.

# Q3. Practical File [5]

**Q4. Project File [5]**

# Q5. Viva [5]