**AISSCE Practical Examination 2020 – 2021**

**COMPUTER SCIENCE – 083**

**Time : 3:00hrs**                                                                                          **M.M. – 30**

|  |  |  |
| --- | --- | --- |
| **Q1.** | **Python Program (Binary File Handling/Stack /Queue/Sorting** | **7** |
| **Q2.** | **Python with MySQL Connectivity** | **5** |
| **Q3.** | **Practical File** | **7** |
| **Q4.** | **Project File** | **8** |
| **Q5.** | **Viva** | **3** |

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**SET – 1**

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| Q1 | A binary file “CAR.dat” has structure [carNo, carname, mileage]   1. Write a user defined function ADD() to input data for a record and add to CAR.dat. 2. Write a function SHOW(carNo) in Python which accepts the car number as parameter and display details according to this carNo from the file CAR.dat 3. Write a function Disp() to show all records | 7 |
| Q2 | Write a program in python to display all the records of table “student” already created in MySQL.[ Rno, name,marks,phone] | 5 |

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**SET – 2**

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| Q1 | Given a stack named book\_details that contains book\_no, book\_name and price. Write code to implement the following functions for the stack.  Push(book\_details):- a function to add a book in the stack, The details of book\_no, book\_name and price should be entered in the function  POP(book\_details):- a function to delete a book from the stack and return its details  DISP()- to display all details from stack book\_details | 7 |
| Q2 | Write a MySQL-Python connectivity code display company name, product name, customername, price and qty, which are common in both the tables COMPANY and CUSTOMER. Database name is “org”   1. **COMPANY**  |  |  |  |  | | --- | --- | --- | --- | | CID | NAME | CITY | PRODUCTNAME | | 111 | SONY | DELHI | TV | | 222 | NOKIA | MUMBAI | MOBILE | | 333 | ONIDA | DELHI | TV | | 444 | SONY | MUMBAI | MOBILE | | 555 | BLACKBERRY | CHENNAI | MOBILE | | 666 | DELL | DELHI | LAPTOP |   CUSTOMER   |  |  |  |  |  | | --- | --- | --- | --- | --- | | CUSTID | NAME | PRICE | QTY | CID | | 101 | ROMA SHARMA | 70000 | 20 | 222 | | 102 | DEEPA KUMAR | 50000 | 10 | 666 | | 103 | MOHAN KUMAR | 30000 | 5 | 111 | | 104 | SAHIL BANSAL | 35000 | 3 | 333 | | 105 | NEHA SONI | 25000 | 7 | 444 | | 106 | SONAL AGGARWAL | 20000 | 5 | 333 | | 107 | ARJUN SINGH | 50000 | 15 | 666 | |  |

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**SET – 3**

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| Q1 | Given a queue named book\_details that contains book\_no, book\_name and price. Write code to implement the following functions for the queue.   1. Enqueue(book\_details):- a function to add a book in the queue, The details of book\_no, book\_name and price should be entered in the function 2. Dequeue(book\_details):- a function to delete a book from the queue and return its details 3. Display()-To display all details from Queue book\_details | 7 |
| Q2 | Write a MySQL-Python connectivity code display unique destination in ascending order from the table FLIGHTS . Database name is “org”  Table : FLIGHTS   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **FNO** | **SOURCE** | **DEST** | **NO\_OF\_FL** | **NO\_OF\_STOP** | | IC301 | MUMBAI | BANGALORE | 3 | 2 | | IC799 | BANGALORE | KOLKATA | 8 | 3 | | MC101 | DELHI | VARANASI | 6 | 0 | | IC302 | MUMBAI | KOCHI | 1 | 4 | | AM812 | LUCKNOW | DELHI | 4 | 0 | | MU499 | DELHI | CHENNAI | 3 | 3 | | 5 |