# Madras Christian College (Autonomous)

**Department of Computer Science**

**Advanced Java Programming Lab**

**Problem Sheet II– Batch 2018**

**Hibernate**

1. Write a Java program to implement MySQL database access using Hibernate.

* Create a Persistent class called Student.
* Create Student.hbm.xml Mapping file for Persistent Student class.
* Create hibernate.cfg.xml Configuration file
* Create the class called Store data that retrieves or store the persistent object.
* Insert, update and delete the records in the table using HQL.

1. Write a Java program using Hibernate Framework to create a candidate table who wrote an entrance test for MCA course and do the following operations:
2. Enter the following details of N students in a class and store them in a table called CANDIDATE\_TBL
3. Candidate Id
4. Candidate First Name
5. Candidate Last Name
6. Candidate Phone Number
7. Candidate email-id
8. Entrance Test Marks (out of 100)
9. Insert details of a new candidate
10. Display the Name, phone number and email id of all the candidates
11. Select the students with a cut-off of 70 in their entrance marks
12. Display the name of the student who has the highest score in the entrance test
13. Count the number of students who have scores above 90
14. Display the sum of the scores of the entire batch
15. Update the details of a candidate whose id is entered
16. Delete the record of a candidate whose id is entered

*[For options (b) to (i) use HQL]*

1. Write a program using HCQL to do the following operations:
2. Create a table called EMPLOYEE of four field names Emp\_id, Emp\_ name, Yr\_of\_experience and Salary of an Employee.
3. Order all the names of the employees according to the salary from highest to lowest
4. Display the details of all the employees whose salary are above Rs.20000
5. Delete the employee records who have the year of experience less than one year.
6. Display id and name of the employee who has the highest salary
7. Select the top 10 employees with respect to the year of experience.
8. Find the average salary of the company
9. Display the count of the employees in the company.
10. Implement a Cart system using Java Hibernate by doing the following operations:
11. Create a table for Cart and another table for Items. A Cart can have multiple items, so there is an one-to-many mapping with cart\_id as a primary key in the Cart table and this association is constrained by the foreign key in the Items table.
12. Do this by implementing a OneToMany mapping of Cart class to the ItemEntry object, so that a single Cart object can be associated with multiple ItemEntry objects.
13. Write an application class to display the items for a given cart.
14. Delete the cart of the given id and its corresponding items from the Items table