## MASTER OF COMPUTER APPLICATIONS (Revised) (MCA)

# Term-End Practical Examination December, 2017

01533

## MCSL-054(P)/S2: LABORATORY COURSE IN ADVANCED INTERNET TECHNOLOGIES AND COMPUTER GRAPHICS & MULTIMEDIA

Time: 2 Hours

Maximum Marks: 50

Note:

There are two parts in this paper. Each part is of 1 hour duration. Attempt only that part(s) in which you are not yet successful.

#### PART I

### **Advanced Internet Technologies**

**Note:** Answer the following question. It carries 20 marks and the viva-voce is of 5 marks.

 Write a JSP program using JDBC to develop an online leave management system, in which an employee can apply for leave and can see his/her leave balance. Make necessary assumptions.

### PART II

## Computer Graphics and Multimedia

**Note:** Answer the following question. It carries 20 marks and the viva-voce is of 5 marks.

2. Implement the Cohen-Sutherland line clipping algorithm in C/C++ using OpenGL.  $\ensuremath{20}$