

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

00094

**Term-End Practical Examination**

**December, 2017**

**MCSL-025(P)/S2 : LABORATORY COURSE (FOR DATA AND FILE STRUCTURES,  
NETWORKING, DBMS LAB & JAVA PROGRAMMING)**

*Time : 3 Hours*

*Maximum Marks : 100*

---

**Note :** *There are four sections in this paper. Each section is of 45 minutes duration. Attempt only those sections in which you are **not yet successful**. Answer **all** the questions in each section. Each section carries 20 marks and the viva-voce for each section is of 5 marks separately.*

---

---

**SECTION A**

**Data and File Structures**

1. Write a program in 'C' language to implement two-way Merge Sort. 20

**SECTION B**

**Networking**

2. Write a shell script in Linux/Unix that accepts a text file as input and prints all lines which have "\$" character in them. 20

## SECTION C

### DBMS Lab

3. (a) Create the following table with appropriate data types for all the fields. The key field is underlined. Insert 10 meaningful records into the table. Make necessary assumptions. 10

FLIGHT (Number, From, To, Capacity)

- (b) Create the following query using SQL on the above table : 10
- List the flight numbers which have a carrying capacity of more than 180 and will travel to New Delhi. Make necessary assumptions.

## SECTION D

### Java Programming

4. Write a program using Java to create an Applet that accepts a string as input and prints the number of vowels in it. 20
-