MLISC 1st Semester Examination, 2013

INFORMATION AND COMMUNICATION TECHNOLOGY - I

PAPER— MLI - 107

Full Marks : 40

Time : 2 hours

Answer **all** questions

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

1. Write in brief on any *five* of the following :   2 × 5

    (*a*) Kernel

    (*b*) Primary key in DBMS

    (*c*) Telnet

(d) HTML tags for 'frame'

(e) Difference of mv and cp in Linux

(f) 'Getchar' in C program

(g) Loop in C program.

2. (a) Describe Unices file system with suitable diagram and file permission details. Elucidate with example the concepts of 'pipe' and filter'. Enumerate the role of administrator in any multi-user operating system.

   $6 + 4 + 5$

   Or

   (b) Why do we need to understand 'data structure' in the context of DBMS ? Explain the utility of DBMS in library operation. Illustrate the concept of RDBMS with appropriate examples and diagrams. $4 + 4 + 7$

3. (a) Enumerate 'C' character set. Describe various data types in 'C'. Explain the roles for variable declaration in 'C'. $3 + 5 + 7$

(3)

Or

(*b*) What do you understand by networking
software and networking hardware ? Illustrate
the concept of 'firewall' with diagram.
Describe the functions of three bottom
layers in ISO-OSI model.   4 + 4 + 7

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