

2017**M.LI.Sc.****1st Semester Examination****INFORMATION AND COMMUNICATION TECHNOLOGY****PAPER—MLI-107****Subject Code—08***Full Marks : 40**Time : 2 Hours**The figures in the right-hand margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.**Answer all questions.*

1. Write short notes on any *two* of the following : 2×5
 - (a) Data models in DBMS.
 - (b) Open Source Operating System.
 - (c) Cavariables.
 - (d) Intranet.

2. (a) Draw a block diagram of UNIX operating system. Describe the properties of UNXX. Distinguish between 'Kernel' and 'Shell'. 5+6+4

(Turn Over)

Or

(b) Describe the characteristics of any high level programming language. What are the logical operators in C language? Distinguish between 'while' loop and 'for' loop in C language. 5+4+6

3. (a) What is a scripting language? What are the different types of scripting language? What are the common characteristics of any scripting language? 3+5+7

Or

(b) Distinguish between client-server and P2P architecture of networking. Make a comparative study among hub, switch and router. 6+9