

**MLISC 1st Semester Examination, 2019**

**INFORMATION AND COMMUNICATION  
TECHNOLOGY FOR LIS-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. Answer any *four* questions : 2 × 4**

**(a) Name two main frame Operating System  
Software.**

*( Turn Over )*

- (b) What different components are there in a version of Ubuntu ?
- (c) Distinguish between preemptive and cooperative multitasking.
- (d) What is POSIX ?
- (e) What is the function of 'scanf' in C language ?
- (f) What are the function of Physical Layer in ISO-OSI Reference Model ?
- (g) What is 'hashing algorithm' ?
- (h) Distinguish between 'bridge' and 'router'.

2. Write short notes on any *four* of the following :

4 × 4

- (a) Kernel
- (b) File Access Permission
- (c) UNIX File System
- (d) Logical Operators in C
- (e) Integer and Float Conversion in C

- (f) Magnetic Media
- (g) Firewall
- (h) Open Source Operating System.

3. Answer any *two* of the following questions :  $8 \times 2$

- (a) Describe the features of UNIX with suitable examples. 8
  - (b) What is an array ? How to declare it ? Illustrate the process of entering data into an array with appropriate examples.  $2 + 1 + 5$
  - (c) Explain the architecture of a DBMS with diagram. Describe the special characteristics of bibliographic DBMS.  $5 + 3$
  - (d) What is IP Address ? Explain DNS Name Space with appropriate example.  $2 + 6$
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