

M.Lib.I.Sc. 1st Semester Examination, 2023

**MASTER OF LIBRARY AND
INFORMATION SCIENCE**

*Information and Communication Technology
for LIS (Theory)*

PAPER – MLI-107

Full Marks : 50

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*

1. Write short notes on any four of the following :

(i) Genome

5 × 4

(ii) Flavours of UNIX

(iii) DNS

(iv) Protocol

(v) Array in C

(vi) "Glue" language

2. Answer any *two* of the following : 10×2

(a) Illustrate the UNIX architecture with diagram. Enumerate the characteristics of UNIX, as an operating system. Briefly describe the parts of the UNIX OS.

$3 + 3 + 4$

(b) Elucidate different types of C variables with example. Illustrate integer and float conversion.

$5 + 5$

(c) What is 'Data model' ? Explain briefly the three schema architecture with diagram.

$2 + 8$

- (d) Why do we require a communication reference model ? What are its components ? Briefly state the functions of Physical Layer and Data Link Layer of OSI model. 3 + 3 + 4

[Internal Assessment — 10 Marks]
