

2021

**B.Lib.I.Sc First Semester Examination**

**Application of Information Technologies in Libraries (Theory)**  
**Course – BLI – 1.5**

Full Marks-40

Time-2 Hours

The right margin figure in the indicate marks

***Answer any Two Questions***

Q 1

- |  |   |
|--|---|
| a. What is the difference between binary and decimal numbers?                          | 2 |
| b. Briefly point out the salient features of ASCII?                                    | 3 |
| c. If $(65)_{10} = (X)_2$ and $(101010.101)_2 = (X)_{10}$ then what is the value of X? | 4 |
| d. Describe various components of a computer system.                                   | 5 |
| e. Describe with example of various generation of programming languages.               | 6 |

Q2

- |  |   |
|--|---|
| a. Describe using a block diagram of Central Processing Unit of a Computer.      | 4 |
| b. Describe logical structure of a database.                                     | 4 |
| c. Describe how to calculate the average of 10 numbers using flow chart diagram. | 4 |
| d. Differentiate between compiler and interpreter.                               | 4 |
| e. Differentiate between Client Server and Peer to Peer network.                 | 4 |

Q3

- |   |     |
|---|-----|
| a. Classify and define various types of Network.                | 6   |
| b. What is packet switching technology?                         | 2   |
| c. Briefly describe various network protocols used in Internet. | 4   |
| d. What is model? Explain any one communication model.          | 2+6 |

Q 4

- |  |    |
|--|----|
| a. Define various components of Data Communication.  | 4  |
| b. Briefly describe various guided media of communication channel.                                       | 4  |
| c. What are various popular Internet services? How those can be used to provide better library services? | 12 |