

Ex./BL/06/12/2018

**BACHELOR OF LIBRARY & INFORMATION SC. EXAMINATION, 2018  
(1st Semester)**

**Computer Basics and Library Automation**

**Paper : BL - 06**

Time : Two hours

Full Marks : 50

The figures in the margin indicate full marks.

Answer any ***all*** questions.

1. (a) What is a computer system ? Mention some of its main characteristics. List the major hardware components and their functions with a diagram. 2+2+6

*OR*

1. (b) What is software ? Explain different categories of software. Discuss the different programming approaches with suitable examples. 2+4+4
2. (a) Define the term 'database' and mention the major types of database model with the help of a diagram. What are the advantages of using a database system in a library ? 2+4+4

(Turn over)

( 2 )

OR

2. (b) Name the different methods of organizing files. Which one of these methods is considered best for library? Write a note on search strategy and techniques generally followed for data retrieval from a database with suitable example. 3+2+5
3. (a) Why library computerization is a must in today's environment? Discuss the various steps in library automation process with its future trends. 2+8

OR

3. (b) Define the term 'Library Automation'. Write a note on evolution of library automation software. Mention with diagram the general functions carried out by Library management software. 2+4+4
4. (a) Define a 'network' and mention different types of computer networks. What distinguishes Internet from other type of computer networks? Explain the advantages of Library Networks. 2+2+2+4

OR

4. (b) Identify the components of a data communication system with a suitable diagram. Discuss briefly the various tools and services for information retrieval on Internet. 4+6

( 3 )

5. Write short notes on any **two** of the following : 5x2=10
- (a) Rules for Binary arithmetic
- (b) UNICODE
- (c) Computer virus
- (d) Data transmission media

— X —