BACHELOR OF LIBRARY AND INFORMATION SCIENCE EXAMINATION, 2023

(1st Year, 1st Semester)

COMPUTER FUNDAMENTALS & LIBRARY AUTOMATION

(THEORY)

PAPER – BL-07

Time : Two hours   Full Marks : 50

The figures in the margin indicate full marks.

Answer *all* questions.

1. a) What is a computer system? Explain the different functions of a computer with a block diagram. Write the differences between fourth and fifth generation computers.   2+6+2

    OR

   b) Explain relationship among hardware, software and users. What are the different types of RAM and ROM? Mention the basic functions and techniques of an operating system.   2+4+4

2. a) Define database and database management system. DBMS has become an essential system of library data management. Discuss. Name the different methods of organizing files. Which one of these methods is considered as best for fastest retrieval of records?   2+3+3+2

    OR

b) Explain an object oriented data structure with an example. Discuss its advantages as compared to relational data structure. Write a note on different search strategy and techniques generally followed for data retrieval from a database with suitable examples. 3+2+5

3. a) What is a Network? What are the different types of computer networks? Differentiate them from Internet and Intranet. Discuss various types of network topology. Diagrammatically explain them.

1+2+2+5

OR

b) What is the need of library network? Why do the libraries consider wireless network? Can library network affect the conventional library system? Discuss. 2+2+6

4. a) What are the benefits of library automation? Explain the different steps of library automation. How do you use and maintain a library automation system?

2+4+4

OR

b) What do you mean by ILMS? How one can select software for a library? What are the motives behind the Digital Library Creation? Mention different types of digital library with examples. 2+3+2+3

5. Write short notes on *any two* of the following: 5×2=10

a) Programming concepts and languages

b) Data representation in computers

c) Network protocols

d) Internet services

e) OPAC and WebOPAC