BACHELOR OF LIBRARY AND INFORMATION SCIENCE

EXAMINATION, 2019

(1st Semester)

Computer Fundamentals and Library Automation (Theory)

Paper : BL - 07

Time : Two hours   Full Marks : 50

Answer *all* questions.

1A. What is a computer system ? Draw a block diagram to illustrate basic organization of a computer system and explain the functions of various units.   2+8

OR

1B. Write a complete specification of all hardware components which have been used in your computer. What is memory hierarchy in a computer system ? Explain it with the help of a diagram. Why is memory hierarchy created in a computer system ?   4+1+3+2

2A. What is meant by computer software ? Explain the features of different categories of software with examples. Mention a list of essential system and application software available in your computer and write few lines about them.   2+4+4

OR

2B. Name the various number sysems and coding schemes used for data representations in computers. Convert the following to their binary equivalents :
(124.54)10   (510)8   (AC)16   7+3

3A. Define the term 'Database'. Explain briefly the basic objectives of database. What is DBMS ? What are the different components of DBMS ? Name the different methods of organizing files.   1+3+1+3+2

OR

3B. What are online databases ? How is it different from a standalone database ? What are synchronous and asynchronous data communications ? Explain briefly with examples.   2+2+2+4

4A. What is the Internet ? Describe the various applications of Internet. Explain URL and IP addressing system.   1+6+3

4B. What do you mean by library automation ? Discuss the basic modules and functions of library automation activities. Describe the impact of Internet on library functions and services.   1+5+4

5. Write short notes on any *two* :   2x5=10
    (a) ILMS
    (b) Various steps in library automation process
    (c) Digital Library
    (d) Library networks

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