MASTER OF LIBRARY & INFORMATION SC. EXAMINATION, 2018

(1st Semester)

Information and Communication Technology (Theory)

Paper : ML - 07

Time : Two hours   Full Marks : 50

The figures in the margin indicate full marks.

Answer *all* questions.

1A. Discuss different areas of applications of ICT in library.   10

OR

1B. Discuss the trends of ICT application on libraries. "ICT is a great mean for reducing digital divide." – Is the statement true ? Give reasons in support of your answer.   6+4

2A. How www is used to locate the necessary information in the library ? What are the steps to be followed to make a web site 'live' on the W W W ?   5+5

OR

2B. State the merits and demerits of using HTML and XML with suitable examples in the development of a web page. What are the advantages and disadvantages of using scripting language in the coding of a web page ?   6+4

3A. Explain with a diagram how one computer communicates with another computer on the network. List the advantages of a message switching system. Explain why is there an application for packet switched and cell switch networks.   4+2+4

OR

3B. What are the criteria necessary for an effective and efficient network ? Discuss how TCP/IP protocols are different from OSI model with a diagram ? What do you need to secure your internet machine ?   3+4+3

4A. (a) Explain various types of constants in C.
    (b) Write a program to print the following pattern :

11	12	13
21	22	23
31	32	33

    (c) Which one among the following variable names : mat_e_89, 89mate, mat e 89 is correct ?   5+4+1

OR

4B. (a) What do you understand by file permission in Linux ? Explain with examples.
    (b) What is the role of user named "root" in a Linux system ? How a normal user can act as "root" ?
    (c) Distinguish between kernel and shell.   6+2+2

3. Write short notes on any *two* of the following : 5x2=10
    (a) Mobile computing
    (b) Big Data technologies in the library
    (c) DHTML
    (d) Open Source Software

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