

MASTER OF LIBRARY AND INFORMATION SCIENCE

(DIGITAL LIBRARY) EXAMINATION, 2019

(1st Semester)

Information Technology - I

Paper : MLDL - 04

Time : Two hours

Full Marks : 40

Answer *all* questions.

- 1A. (a) What is a mark-up language ? Where is this type of language used and why ? How is metadata handled by HTML ? Explain various HTML List Tags with examples. 2+2+2+4
- (b) What is XML ? What are the differences between HTML and XML ? Which tag is used to find the version of XML and how do you refer to the .xsl file in the web page ? 1+2+2

OR

- 1B. (a) What are the features and benefits of XML ? Define structure of XML document with example. What are the basic rules while writing XML ? 4+2+3+2
- (b) What is CSS ? How many types CSS can be included in HTML ? 1+3

(Turn over)

(2)

- 2A. (a) What is the difference between Linux OS and Linux distros ?
- (b) Write few areas of library functions where Linux OS may be used.
- (c) Explain spooling and redirection in Linux with suitable examples.
- (d) Write the Linux commands with suitable option and argument to execute the following tasks.
- (i) Delete a folder that is not empty.
 - (ii) To move a file named 'myfile' from/home/student to/home/studentexam.
 - (iii) To join two files named 'file 1' and 'file2' and store the total content in 'file3'.
 - (iv) To view the content of a file one page at a time. 1+3+5+6

OR

- 2B. (a) Explain file permission in Linux on the basis of the output of ls-l command.
- (b) Write the Linux command to change file permission with suitable option and argument.
- (c) Name a few Linux commands to create a file.
- (d) Name a few system folders created under root directory(i) during Linux installation with default contents.

(5)

4. Write short notes on any *two* of the following : 5x1=5
- a. DHTML
 - b. File archiving and compression in Linux
 - c. Rules for C programming

— X —

(Turn over)

(4)

- (b) Distinguish between the following :
- (i) '=' and '=='
 - (ii) 'A' and "A"
 - (iii) ++a and a++
- (c) Write an appropriate control structure that will examine the value of a floating-point variable called temp and print one of the following messages, depending on the value assigned to temp.
- (i) ICE, if the value of temp is less than 0.
 - (ii) WATER, if the value of temp lies between 0 and 100.
 - (iii) STEAM, if the value of temp exceeds 100.
- 4+6+5

OR

- 3B. (a) If the marks obtained by a student in five different subjects are input through the keyboard, find out the aggregate marks and percentage marks obtained by the student. Assume that the maximum marks that can be obtained by a student in each subject is 100.
- (b) Write a program to test a character as vowel or not.
- (c) Explain logical operators with their return values.
- (d) Any year is entered through the keyboard, write a program to determine whether the year is leap or not. Use the logical operators. 4+4+4+3

(3)

- (e) What remote log-in ? Write the corresponding Linux command with suitable argument.
- (f) How files can be transferred between two Linux systems?

- 3A. (a) State whether each of the following is *true* or *false* in the context of C programming language.
- (i) Comments cause the computer to print the text enclosed between /* and */ on the screen when the program is executed.
 - (ii) The escape sequence /n when used in a **printf** format control string causes the cursor to position to the beginning of the next line on the screen.
 - (iii) All variables must be defined before they are used.
 - (iv) All variables must be given a type when they are defined.
 - (v) C considers the variables **number** and **Number** to be identical.
 - (vi) All arguments following the format control string in a **scanf** function must be preceded by an ampersand (&).
 - (vii) A program that prints three lines of output must contain three **printf** statements.
 - (viii) **temperature** is a valid identifier.

(Turn over)