MASTER OF LIBRARY AND INFORMATION SCIENCE

(DIGITAL LIBRARY) EXAMINATION, 2023

(1st Year, 1st Semester)

INFORMATION TWCHNOLOGY - I

Course : MLDL-04

Time : Two Hours   Full Marks : 50

The Figures in the margin indicate full marks.

Answer any five questions

1. A) Discuss the advantages of using multi-user OS over single-user OS. Discuss the commands by which you can create and edit a text file in Linux. What types of files are stored in the "bin" directory under root (/) in Linux. Discuss file permission in Linux with the output of is -1 command.

2+3+1+4

OR

1. B) Discuss the role of "Open-Source Software" in LIS related services. Discuss different options of cd command in Linux. Discuss the usage of the following Linux commands with example : (i) chmod (ii) man   3+3+4

2.   Write C-programs for the following problems (any two) :

5x2=10

a) Print Grand according to the following logic. Marks should

[Turn over

be taken during run time and valid marks in between 0 to 100.

Grade = "A" for Marks>=90

Grade = "B" for Marks>=70 but <90

Grade = "C" for Marks>=50 bu <70

Grade = "D" for Marks>=40 bu <50

Grade = "F" for Marks < 40

b) Print the following pattern through nested loop :

5 5 5 5 5

4 4 4 4

3 3 3

2 2

1

c) Convert time given in seconds into hours, minutes and seconds. Take input during run time.

Clue : 1 hour = 60 minutes and 1 minute = 60 seconds

d) Check whether a given number is palindrome or not ?

Hints : A palindromic number is a number (such as 16461) that remains the same when its digits are reversed

e) Calculate and print the sum of the odd numbers between 1 to 100.

Clue : Odd numbers are whole numbers not exactly divisible by 2

3. A) What is a markup language ? How is it different from programming language ? Explain the structure of two markup languages with suitable examples.   2+2+6

OR

3. B) What is the purpose of web technology ? What are the basic rules to write XML document ? How XML is different from HTML ? Discuss XML DOM.   2+3+2+3

4. A) Why are external style sheets preferred ? How can you integrate CSS on a web page ? Explain with suitable examples. What is the CSS Box model and what are its elements ?   2+3+3+2

OR

4. B) What is XSL ? What are the important parts of XSL documents ? Can you explain how to generate HTML using XSLT with an example ?   2+3+5

5. **Write short notes : (any two)**   5x2=10

i) Different data types used in c programming language

ii) Linux Distros

iii) Redirection in Linux

iv) HTML Table tag with attributes

v) DHTML