

4. Write Short Notes (Any two) : 5x2
- 2) Java Script Variable
  - 3) Java Script Control Structures
  - 4) Input/output system in Java
  - 5) “Classes”, “Objects” and “Methods” in Java

**MASTER OF LIBRARY AND INFORMATION SCIENCE**

**(DIGITAL LIBRARY) EXAMINATION, 2023**

(2nd Year, 1st Semester)

**INFORMATION TECHNOLOGY - III**

**Course : MLDL-12**

Time : Two Hours

Full Marks : 50

The Figures in the margin indicate full marks.

Answer all questions.

1. A) What is a scripting language ? Are Java and JavaScript the same ? What are the needs of scripting language in web development ? Mention advantages and disadvantages of using Scripting Languages ? 2+2+2+4

OR

1. B) What is OOPs concept in JavaScript ? How can you create an object in JavaScript ? What is DOM in JavaScript ? Build a program to print the current data on the browser’s window. 2+2+2+4
2. A) In how many ways a JavaScript code can be involved in an HTML file ? Explain with a suitable example of each. How to change the background colour of HTML document using JavaScript ? 3+3+4

OR

[ 2 ]

2. B) Explain about Function definition, Function calling, Function parameter with suitable examples in JavaScript. What is the output of  $10 + 20 + "30"$  and  $"10" + 20 + 30$  in JavaScript with reasons ? 8+2

3. A) Write java codes for the following problems (4 out of 8):

$5 \times 4 = 20$

i) Check Whether a Number or a string is Palindrome or Not ? Take input from the keyboard during execution of the program.

ii) Calculate Income Tax according to the following logic. Income should be taken during run time.

The tax rates are

0-3lakh - nil

3-6 lakh - 5%

6-9 lakh - 10%

9-12 lakh - 15%

12-15 lakh - 20%

above 15 lakh - 30%

iii) Write java code to print the following pattern :

5 5 5 5 5

4 4 4 4

[ 3 ]

3 3 3

2 2

1

iv) Write java code to display the members of Fibonacci series below 100.

Clue : The members are

0, 1, 1, 2, 3, 5, 8, 13, 21 .....

v) Write java code to print the following pattern :

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

vi) Convert time given in seconds into hour, minutes and seconds.

vii) Convert temperature given in Centigrade into Fahrenheit.

viii) Write a Java Program to demonstrate the working of a Library system where we insert books with three variables (id, title and price) and display books from the stock. Create a Book class which has insert () and display () methods.

[ Turn over