

## CMR ENGINEERING COLLEGE: : HYDERABAD

## UGC AUTONOMOUS

III-B.TECH-I-Semester End Examinations (Regular) - December- 2024

## WEB PROGRAMMING

(CSM)

[Time: 3 Hours]

[Max. Marks: 60]

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 10 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

## PART-A

(10 Marks)

1. a) List new tags in HTML5. [1M]
- b) What does the console.log() method do? [1M]
- c) Define "bytecode" in Java. [1M]
- d) What is the difference between a constructor and a method? [1M]
- e) Name the four types of JDBC drivers. [1M]
- f) What is the purpose of the InetAddress class in Java? [1M]
- g) Name the method used to initialize an applet. [1M]
- h) What is the purpose of the FlowLayout manager? [1M]
- i) What does XML stand for? [1M]
- j) Which XSL element is used to apply a template? [1M]

## PART-B

(50 Marks)

2. Explain the structure of an HTML document. Illustrate with an example of a webpage containing a header, paragraph, and hyperlink. [10M]
- OR**
3. Explain JavaScript's data types. Write a program to demonstrate the use of the Math object for calculating the square root of a number and generating a random number. [10M]
  4. Write a Java program to create and manage multiple threads using the Runnable interface and Thread class. [10M]
- OR**
5. What is inheritance? Explain its types. [10M]
  6. Explain the architecture of JDBC with a neat diagram. [10M]
- OR**
7. Explain the architecture of Java RMI with a diagram. Describe the steps involved in developing and running an RMI application. [10M]
  8. Explain Abstract Window Toolkit (AWT) and its components including buttons, text fields & event handling. [10M]
- OR**
9. What is JSP? Explain its architecture and advantages over servlets. Write a simple JSP program to display a user's name based on a form input. [10M]

10. Explain the features of XML and its significance in web development. [10M]

**OR**

11. What is XSLT, and how is it used to transform XML documents into different formats? Explain with a step-by-step example. [10M]

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