Code No.: R22AI513PE

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–I–Semester End Examinations (Supply) - June- 2025
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) Write the format of HTML program.   [1M]
   b) What is the difference between document write and written.   [1M]
   c) What is the difference between **File** and **FileInputStream** in Java?   [1M]
   d) What is the purpose of the static keyword when defining variables in Java. [1M]
   e) How do you establish a connection to a database using JDBC? Provide an example. [1M]
   f) What is the purpose of the **InetAddress** class in Java?   [1M]
   g) Explain how to create a **submenu** in Java using **JMenu**.   [1M]
   h) Give the difference between a generic servlet and http servlet.   [1M]
   i) Define XML and why is it used?   [1M]
   j) What is **UDDI** and how does it relate to web services in Java.   [1M]

PART-B   **(50 Marks)**

2. Demonstrate how you can use Browser Object Model methods to interact with browser features like alerts, prompts, and confirms. Provide code snippets.   [10M]

OR

3. Create an HTML5 canvas animation that reacts to user input, such as mouse movements or clicks.   [10M]

4. List five commonly used methods in the String class and their functions.   [10M]

OR

5. Analyze the limitations of interfaces compared to abstract classes in terms of functionality and design.   [10M]

6. Evaluate the advantages and limitations of using Java Beans in large-scale applications. [10M]

OR

7. Describe JDBC architecture and explain how using JDBC to connect to a MySQL database and retrieve data from a table.   [10M]

8. Compare the differences between using the paint() method and the paintComponent() method (in Swing) for drawing graphics. How does AWT (Abstract Window Toolkit) handle painting components?   [10M]

OR

9. Analyze the role of the ServletConfig and ServletContext objects in a Java servlet. How do they differ in terms of scope and functionality?   [10M]

10. Evaluate the role of WSDL (Web Services Description Language) in defining XML Web Services. How does it support service discovery?   [10M]

OR

11. Compare the advantages and disadvantages of **SOAP** and **REST** web services in terms of performance, scalability, and security.   [10M]

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