

MCA
(SEM III) THEORY EXAMINATION 2022-23
WEB TECHNOLOGY

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

1. Attempt all questions in brief. 2 x 10 = 20

- a) Discuss Ordered list with an example.
- b) Write HTML code for inserting image on a web page.
- c) Explain the scope of let and Var variable in JavaScript.
- d) Differentiate between Client-Side scripting and Server-Side Scripting.
- e) Describe advantages of JSP over Servlet
- f) Which class has to be extending for creating Servlet?
- g) Explain the importance of IoC in spring.
- h) Differentiate between Bean Factory and ApplicationContext.
- i) Differentiate between spring & spring boot.
- j) Discuss, can we call a java class with annotations as POJO class or not?

SECTION B

2. Attempt any three of the following: 10 x 3 = 30

- a) Explain the following HTML tags with example.
 - (i) <a>
 - (ii) <body>
 - (iii)
 - (iv) <table>
 - (v) <p>
- b) Illustrate Document object Model? How to create text box and button in DOM.
- c) Explain Servlet life cycle in detail.
- d) Illustrate Aspect Oriented Programming in spring framework.
- e) Classify all the annotations those are exclusively used for spring boot applications.

SECTION C

3. Attempt any one part of the following: 10x 1 = 10

- a) Discuss cascading. Write the various approaches of CSS. List out the properties of CSS with example.
- b) Discuss issues during web designing.

4. Attempt any one part of the following: 10 x 1 = 10

- a) 'JavaScript is referred to as object-based programming language'. Illustrate with an example.
- b) Construct a JavaScript program to print reverse digit of any number.

5. **Attempt any *one* part of the following:** **10 x 1 = 10**
- a) Discuss session tracking? How a session is created? Explain
 - b) Demonstrate the role of cookies in web application with example.
6. **Attempt any *one* part of the following:** **10 x 1 = 10**
- a) Classify the design patterns that are used in java programming.
 - b) Compare constructor injection and setter injection in spring with suitable example.
7. **Attempt any *one* part of the following:** **10 x 1 = 10**
- a) Explain GET, PUT, POST, and DELETE method with respect to REST API.
 - b) Create a RESTful spring boot application for handling the delete and put request

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