Printed Pages:02 **Sub Code: KCA-021**

Paper Id: | 2 | 3 | 2 | 3 | 4 | 1 | **Roll No.** | | | | | | | | | | | | |

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) <img>
   (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.

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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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