

Code: 19IT2701A

**IV B.Tech - I Semester – Regular Examinations - DECEMBER 2022**

**WEB TECHNOLOGIES**  
(Common for CE, EEE)

Duration: 3 hours

Max. Marks: 70

- Note: 1. This question paper contains two Parts A and B.  
 2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.  
 3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.  
 4. All parts of Question paper must be answered in one place.

BL – Blooms Level

CO – Course Outcome

**PART – A**

|       |   | BL | CO  |
|-------|---|----|-----|
| 1. a) | Identify the use of list tag and write its types. | L1 | CO1 |
| 1. b) | Interpret Internal & External Style class.        | L2 | CO1 |
| 1. c) | Discuss about well formed XML document.           | L2 | CO1 |
| 1. d) | Recall the procedure to define ODBC.              | L1 | CO3 |
| 1. e) | Draw MVC Architecture.                            | L1 | CO1 |

**PART – B**

|               |    |   | BL | CO  | Max. Marks |
|---------------|----|---|----|-----|------------|
| <b>UNIT-I</b> |    |   |    |     |            |
| 2             | a) | Explain important attributes for the following tags<br>i) <body>                      ii) <form><br>iii) <textarea>                      iv) <iframe> | L2 | CO1 | 6 M        |

|                 |    |  |    |     |     |
|-----------------|----|--|----|-----|-----|
|                 | b) | Interpret the use of frame tag with an example program.  | L3 | CO1 | 6 M |
| <b>OR</b>       |    |  |    |     |     |
| 3               | a) | Identify the use of a form. Explain form components with example.  | L2 | CO1 | 6 M |
|                 | b) | Explain table tag with example.  | L2 | CO1 | 6 M |
| <b>UNIT-II</b>  |    |  |    |     |     |
| 4               | a) | Examine the concept, syntax, typical use of objects in Java script.  | L2 | CO2 | 6 M |
|                 | b) | Distinguish between alert box and confirmation box. What are escape characters?  | L2 | CO2 | 6 M |
| <b>OR</b>       |    |  |    |     |     |
| 5               | a) | Explain Mouse events with simple example.  | L2 | CO2 | 6 M |
|                 | b) | Construct a form for student information. Write Java Script code to find total, average, result and grade.   | L3 | CO2 | 6 M |
| <b>UNIT-III</b> |    |  |    |     |     |
| 6               | a) | Associate DTD for the following XML code<br><pre>&lt;orderperson&gt;John Smith&lt;/orderperson&gt; &lt;shipto&gt;   &lt;name&gt;Ola Nordmann&lt;/name&gt;   &lt;address&gt;Langgt 23&lt;/address&gt;   &lt;city&gt;4000 Stavanger&lt;/city&gt;   &lt;country&gt;Norway&lt;/country&gt; &lt;/shipto&gt;</pre> | L2 | CO1 | 6 M |

|                |    |  |    |     |     |
|----------------|----|--|----|-----|-----|
|                | b) | Discuss how do you define the elements of an XML document in an XML Schema? Explain how to set default & fixed values for simple elements. | L2 | CO1 | 6 M |
| <b>OR</b>      |    |  |    |     |     |
| 7              | a) | Differentiate between XML Schema and DTD.  | L2 | CO4 | 6 M |
|                | b) | Illustrate XML DOM with an example program.  | L3 | CO1 | 6 M |
| <b>UNIT-IV</b> |    |  |    |     |     |
| 8              | a) | Explain various components of JDBC.  | L2 | CO1 | 6 M |
|                | b) | Describe and illustrate the architecture of JDBC.  | L2 | CO3 | 6 M |
| <b>OR</b>      |    |  |    |     |     |
| 9              | a) | Construct a simple JDBC application to work with databases.  | L3 | CO5 | 6 M |
|                | b) | Explain working with Prepared Statement.   | L2 | CO3 | 6 M |
| <b>UNIT-V</b>  |    |  |    |     |     |
| 10             | a) | Explain Servlet API in detail.   | L2 | CO1 | 6 M |
|                | b) | Explain lifecycle of a Servlet. Illustrate with an example program.  | L2 | CO5 | 6 M |
| <b>OR</b>      |    |  |    |     |     |
| 11             | a) | Explain lifecycle of a JSP.  | L2 | CO1 | 6 M |
|                | b) | Analyze the uses of Scripting tags & directive tags in JSP.  | L3 | CO5 | 6 M |