Code No: **RT41195**   **R13**   Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018
WEB DESIGN
(Electronics and Computer Engineering)

Time: 3 hours   Max. Marks: 70

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B
*****

PART–A (22 Marks)

1. a) Can an image be included in the web page? Explain with an example.   [4]
    b) Differentiate between Container and Component.   [4]
    c) What is the use of "manifest" file in Java Beans?   [3]
    d) What is a servlet context?   [4]
    e) **Differentiate between <jsp:include page=…> and <%@include file=…>**   [4]
    f) What is two phase commit in databases?   [3]

PART–B (3x16 = 48 Marks)

2. a) Write a short note on the following form elements and attributes with suitable examples.
        i)   method attribute
        ii) action attribute
        iii) checkbox element
        iv) select element   [8]
    b) Write a JavaScript that takes three integers from the user and displays the sum, average, product, smallest and largest of the numbers in an alert dialog.   [8]

3. a) Explain the Border Layout in java.awt with an example.   [8]
    b) Write a Java Program to illustrate the concept of JScrollPane in Java Swing.   [8]

4. a) Explain the directory structure of web applications defined in J2EE.   [8]
    b) *"Long-term persistence* is a model that enables beans to be saved in XML format" – Explain with a programming example.   [8]

5. a) Explain in detail "javax.servlet" package.   [8]
    b) With a neat diagram explain the life cycle of Servlet. Also explain each method involved in the life cycle.   [8]

6. a) What is MVC architecture? Explain the role of JSP in MVC architecture.   [8]
    b) What is JSTL? Explain the advantages and various tags in JSTL.   [8]

7. a) Explain various steps involved in creating a JDBC Connection.   [8]
    b) Elaborate on different types of JDBC statements. Also give an example program on prepared Statement.   [8]