

H.T.No.

--	--	--	--	--	--	--	--	--	--

Code No: CS1511

GEC-R14

III B.Tech I Semester Supplementary Examinations, July 2017

WEB TECHNOLOGIES
(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 60

Note: All Questions from **PART-A** are to be answered in one place.

Answer any **FOUR** questions from **PART-B**. All Questions carry equal Marks

PART-A

6 × 2 = 12M

1. Define CSS. List out types of CSS.
2. Differentiate Java with JavaScript.
3. Briefly describe various building blocks of XML file.
4. Outline the classes and interfaces of javax.servlet package for web servers.
5. Write the importance of implicit JSP objects.
6. What is JDBC?

PART-B

4 × 12 = 48M

1. a) What is a frame? Write the advantages of using a frame? Clearly explain the creation of frames with an example. (6M)
b) Create the following HTML Login Form (6M)

Username:

Password:

2. a) Define an event? Explain how events are handled in JavaScript with an example. (6M)
b) Write a JavaScript which reads a number given and displays the output in words (Eg:- Given 123, Output should be ONE TWO THREE) (6M)

3. a) Construct Internal and External DTDs for the following XML file (6M)

Students.xml:

```
<students>
  <student roll="1">
    <firstname> James </firstname>
    <lastname> Watson </lastname>
    <year> 3 </year>
    <courses>
      <course id="1">
        <name> Advanced Java </name>
      </course>
      <course id="2">
        <name> Web Technologies </name>
      </course>
    </courses>
  </student>
</students>.
```

- b) Differentiate DOM and SAX XML Parsers. (6M)
4. a) Define Servlet and explain Servlet Life Cycle mechanism. (6M)
- b) Summarize the importance of Session Tracking with example. (6M)
5. a) What are the limitations of Servlets and explain how JSP over comes these problems. (6M)
- b) Develop a JSP to keep track number of users for a website and display a message "you are nth visitor Where n is number of user. (6M)
6. a) List out and Explain various classes and interfaces in javax.sql package. (6M)
- b) Write a JSP program that lists all books and the authors from database. (6M)
