III B.Tech. II Semester Supplementary Examinations, January -2014
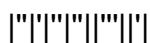**ADVANCED JAVA AND WEB TECHNOLOGIES**
(Computer Science and Engineering)

Time: 3 Hours **Max Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
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1. (a) Write HTML program for creating your own bio-data form using different CSS rules.
   (b) Show how group and alignment of tables, rows and columns is achieved using HTML?
   (c) Write a script that reads an integer and determines whether it is Armstrong Number or Not. [5+5+5]

2. Define PHP. Briefly explain the Creation and Running procedure of PHP script. [15]

3. (a) What is an XML document? Enumerate the rules for writing an XML document with an example.
   (b) Explain with an example, how can you check an XML document is both valid and well formed document? [8+7]

4. (a) What is a JAVA Bean? Discuss the Features of JAVA Beans.
   (b) How can you apply bound properties and constrained properties for a Java Bean? [8+7]

5. (a) What is a Servlet ? What are the advantages of Servlets over CGI based applications?
   (b) Write and discuss a Servlet program for reading Servlet parameters and Reading initialization parameters. [8+7]

6. (a) Explain about JSP application design with MVC architecture.
   (b) Explain how error handling and debugging will be done in JSP. [8+7]

7. (a) Discuss different JDBC drivers with its architectures.
   (b) Explain how JDBC performs mapping between JAVA and SQL data types. [8+7]

8. Explain in detail about AJAX with an example program. [15]
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1. (a) What are the limitations of Document Type Definitions (DTDs)? How these limitations are overcome using XML schema?
   (b) Explain in detail the various types of XML Elements and Attributes.　　　[8+7]

2. Explain the following in detail:
   (a) Types of Lists in HTML
   (b) Frames
   (c) Cascading Style Sheets　　　[5+5+5]

3. (a) Briefly explain about user defined functions in PHP.
   (b) Briefly explain about Math built in functions.　　　[8+7]

4. (a) Explain the Bean Properties in detail.
   (b) Write about Persistence and Customization of Java Bean with an example.　　　[8+7]

5. (a) Describe the Servlet architecture and the various life cycle methods invoked by the servlet container.
   (b) Write a Servlet program that handles HTTP GET Request containing data that is supplied by the user as a part of the request.　　　[8+7]

6. (a) Explain the steps to install Tomcat Web server with neat sketches.
   (b) List and explain the methods of javax.servlet.http Package.　　　[8+7]

7. (a) What is Session? Discuss how the Session management is supported by JSP?
   (b) List and explain the various Implicit Objects in JSP with suitable examples.　　　[8+7]

8. Explain the role of XML and PHP in AJAX.　　　[15]

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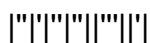**ADVANCED JAVA AND WEB TECHNOLOGIES**
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1. (a) Write a HTML script to manage personal details of a student like name, class, qualifications, photo, address etc., using tables and other suitable HTML tags.
   (b) What is CSS? Discuss in brief about different kinds of CSS with a suitable program. [8+7]

2. (a) What is the purpose of XML Schema and DTD in Web Environment? Explain with an example, what are the advantages of XML Schema over DTD.
   (b) What is a Parser? Compare and Contrast DOM and SAX Parsers. [8+7]

3. (a) Explain in detail Associate Arrays in PHP.
   (b) Explain in detail Array Functions in PHP. [8+7]

4. (a) Explain Juggler Bean Introspection in BDK.
   (b) What are Java Bean Properties? Explain each of them with an example. [8+7]

5. (a) Discuss the structure of HTTP request and HTTP response in Servlets.
   (b) Explain in detail about javax.servlet.http package. [8+7]

6. (a) Explain in detail the steps for installing Tomcat and Testing Tomcat Software.
   (b) What are JSP Directive Elements? Discuss each of them with an example. [8+7]

7. (a) How to deploy Java Beans with JSP and write a program to demonstrate it.
   (b) Write a JDBC program to update a record using Prepared Statement class. [8+7]

8. Explain in detail about SOAP, WSDL Web services in AJAX. [8+7]
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1. (a) Explain about <TABLE> & <FRAME> tags in Detail with examples.
   (b) Describe the different ways that styles can be added to a HTML page.   [8+7]

2. (a) Explain the steps to connect the database from PHP script.
   (b) Write a PHP script to retrieve data from database. Assume your own database.   [8+7]

3. (a) Explain the following terms related to XML:
   (i) Elements   (ii) Attributes   (iii) Elements vs Attributes
   (b) Write the differences between DOM and SAX.   [8+7]

4. (a) Explain the BDK Components with neat sketch.
   (b) How to handle Events with Java Beans and explain with example.
   (c) Write a Color Bean program to generate random colors.   [5+5+5]

5. Write brief notes of the following:
   (a) Cookies management in Servlets with an example.
   (b) javax.servlet Package.   [8+7]

6. (a) Discuss in detail Anatomy of JSP page.
   (b) Write a JSP program to display the current date and time.   [8+7]

7. (a) How does the JSP provide connectivity to databases? Explain in detail.
   (b) What are JSP Standard Actions? Explain <jsp:useBean> Standard Action with an
   example.   [8+7]

8. Write a short note on the following web Services in AJAX:
   (a) SOAP
   (b) UDDI   [8+7]

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