

(Please write your Exam Roll No.)

END TERM EXAMINATION

SEVENTH SEMESTER [B.TECH] JANUARY-FEBRUARY 2023

Paper Code: IT413**Subject: Front End Design Tools & Web Technologies****Maximum Marks: 75****Time: 3 Hours****Note: Attempt five questions in all including Q.No.1 which is compulsory.**

- Q1** Attempt the following in brief: (5x5=25)
- What is struts framework?
 - Explain two types of URL referencing techniques with suitable examples in HTML.
 - What do you mean by web hosting and Publishing? Explain with the help of an example.
 - What are the advantages of client side scripting using Java Script?
 - What do you mean by DTD's using XML?
- Q2** What are HTTP cookies? Write a HTTP Servlet program to create a cookie. (12.5)
- Q3** What are the building blocks of XML documents? Explain. (12.5)
- Q4** What is DOM and explain its working? How is it beneficial to use in a web browser, give some examples. (12.5)
- Q5** Explain how is HTML different from XML and DHTML? What are the building blocks of XML documents? Write the syntax of the tag used to find the version of XML in a given program. (12.5)
- Q6** Describe the complete lifecycle of a servlet. What is the difference between servlet and applet? (12.5)
- Q7** Write atleast four features of Javax.sql using examples. (12.5)
- Q8** Write short on **any three** of the following: (12.5)
- SMTP
 - Positioning elements of CSS
 - Structure of HTML program
 - Properties of Java Beans

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SEVENTH SEMESTER [B.TECH.] DECEMBER 2019

Paper Code: IT-413**Subject: Front End Design Tools & Web Technologies****Time: 3 Hours****Maximum Marks: 75****Note: Attempt five questions in all including Q.no. 1 which is compulsory.**

- Q1) Attempt any five of the following Parts: (5x5=25)
 a) Describe five main features of Web Technologies.
 b) Differentiate between J2SE, J2ME, J2ME and J2EE Technologies.
 c) What is MVC Architecture? Who proposed it
 d) Enumerate the differences between HTML and XML.
 e) Design a XML from for Library Management System. Apply appropriate DTDs.
 f) What is Struts Framework? Explain
- Q2) Write JDBC Program (for Insertion of records) to connect Java Program connect to MySQL Server for a Bidding Website. The Form should have fields like: Item Number, Name Bidding Price, Expiry Date, Number of Days etc. Assume appropriate field in the table of database etc. (12.5)
- Q3) Compare and Contrast between Serve let and JSP Life Cycle. (12.5)
- Q4) Design a Interactive HTML based GUI From (With Event Handling) of University Examination System having fields Like: Enrollment Number, Name, Age, Address, Programme of Study. Apply appropriate Java Script Validations. (12.5)
- Q5) What are Java Beans? Write a Program to create Blue Colored Rectangular Java Beans. (12.5)
- Q6) Write Short Notes on following. (5x2.5=12.5)
 a) Session Creation and Tracking
 b) Enterprise Java Beans
 c) SMTP Protocol
 d) POP3 Protocol
 e) Creation of tables in HTML script.
- Q.7. a) What are JSP Tags? Describe them. (6.5)
 b) What are Cookies. Write a Serviette Program to create Cookies. (6)
- Q.8. a) What is the MIME? Explain it's purpose with the help of an example. (6.5)
 b) What is JDBC? What are the driver classes? (6)

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END TERM EXAMINATION

SEVENTH SEMESTER [B. TECH (IT/CSE)] DECEMBER 2018

Paper Code: IT-413

Subject: Front End Design Tools
and web Technologies

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q. No. 1 which is compulsory.

Q1 Attempt following in brief: (any five) (5x5=25)

- (a) State the differences between HTML and XML.
- (b) What are Cookies? Write a Program to set and Print the cookies.
- (c) What is MVC Architecture? Explain the role and purpose of every layer with example.
- (d) Name and explain four JDBC API/Drives.
- (e) Differentiate between Java Bean and Enterprise Java Bean.
- (f) with the help of Servlet Program, differentiate between doGet() and doPost() function

Q2 Design a HTML Page for a Employee Management System containing key fields like: - : Empld, Emp Name, Address, Salary, Designation etc. Write appropriate Java Script for it. (12.5)

Q3 Write a JDBC Program to insert a record in the student table of the Access/Oracle database having fields like : Empld, Emp Name, Address, Salary, Designation etc. (12.5)

Q4 What is Java Beans? Write a Program to create a small blue coloured rectangular Java bean. (12.5)

Q5 What are Servlets? Write a Servlet Program to Print the Request headers of the Web browser. (12.5)

Q6 Explain JSP life cycle? Write a JSP Program to print the string "GGSIP University" and IP Address of a Remote Client Machine. (12.5)

Q7 Distinguish between HTML, DHTML and XML. Design a XML Page for Selling an item on the Web Site. Assume appropriate attribute of item like : Item ID, Item Name, Item Price, Item Manufacture Name, Item Quantity etc. (12.5)

Q8 Write short note on following (2.5x5=12.5)
(a) Difference between HTTP and HTTPS.
(b) CSS sheets
(c) Cookies
(d) SMTP protocol
(e) Difference between servlet and applet.

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SEVENTH SEMESTER [B.TECH(IT/CSE)] DECEMBER 2017

Paper Code: IT 413

Subject: Front End Design Tools and Web Technologies

Time : 3 Hours

Maximum Marks : 60

Note: Attempt any four questions including Q.NO. 1 which is compulsory.

Q1. Attempt **any five** parts:

(5x6=30)

- a) What is MVC Architecture? Explain with an example.
- b) Describe the differences between HTML and XML?
- c) Explain JSP objects and write a JSP program to display the string "GGSIPU".
- d) Describe Cookies? Write a program to create cookies using Servlet.
- e) Compare and contrast between the Java Beans and Enterprise Java Beans.
- f) Write a Java Program to create a Simple Green Coloured Rectangular Java Bean?
- g) Write a XML Program to display the information about the Voter in the Voter Id Card. Describe your own tags and write appropriate DTD for it.

Q2. Using JDBC concepts write a program to perform the task of Insertion, Updation and Deletion of records in MS-Access database/ORACLE/MySQL database for Employee Management System. Assume appropriate table schema with suitable records inside it to perform the task. (10)

Q3. What is Servlet? Explain Life cycle of a servlet? Compare and Contrast between Generic and HTTP Servlet. (10)

Q4. Write complete HTML Program to design a 'Library Management System'. Apply appropriate JavaScript Validations etc. (10)

Q5. Write short notes on following: (5x2=10)
a) JDBC Driver API(s)
b) Session Tracking in Servlets/JSP

Q6. Explain HTTP Request and Response Mechanism with example. (10)

Q7. What are the implicit JSP objects? Enlist and explain. (10)

Q8. How Java beans are deployed in a JSP page? Explain. (10)

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END TERM EXAMINATION

SEVENTH SEMESTER [B.TECH.] DECEMBER 2016

Paper Code: IT-413

Subject: Front End Design Tools & Web Technologies

Time: 3 Hours

Maximum Marks: 60

Note: Attempt any five questions including Q no.1 which is compulsory.

- Q1 Differentiate between the following:- **(5x4=20)**
(a) SMTP and POP3
(b) DOM and SAX
(c) Stateful and stateless Session
(d) JDBC and ODBC
- Q2 (a) Explain and provide the syntax of various tags used in HTML. **(6)**
(b) Differentiate between Dynamic and static HTML. How does Java Script useful in Dynamic HTML? **(4)**
- Q3 Discuss about the following examples:- **(5x2=10)**
(a) CSS
(b) IMAP
- Q4 (a) Design a simple JSP page to display current date and time from system. **(4)**
(b) Write steps to install TOMCAT server in your machine. **(3)**
(c) What are XML file? Show the use of XML in JSP pages. **(3)**
- Q5 (a) Discuss the life cycle of a servlet in detail. Also explain the important features of a servlet. **(5)**
(b) Discuss the various Security Issues and their solutions in web programming in detail. **(5)**
- Q6 Explain the steps and important functions to perform Database Programming using JDBC. Is there any other method to provide the database connectivity? If yes, kindly elaborate the method in detail. **(10)**
- Q7 Write a program, where illustration of JAVA Beans takes place. Explain the various features of Java beans in Web programming. **(10)**
- Q8 Write short notes on **any two** of the following:- **(5x2=10)**
(a) STRUT
(b) javax.Servelet HTTP Package.
(c) BDK

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END TERM EXAMINATION

SEVENTH SEMESTER [B.TECH/M.TECH] DECEMBER 2015-JANUARY 2016

Paper Code: IT-413

Subject: Front End Design Tool and
Web Technologies

Time: 3 Hours

Maximum Marks: 60

Note: Attempt any four questions including Q.no. 1 which is compulsory.

- 1) Attempt **any five** parts: (5x6=30)
- (a) Explain JSP with anatomy of a JSP Page and its elements.
 - (b) What are Cookies? Write a Program to create Cookies using Servlet.
 - (c) Compare and Contrast between the Java Beans and Enterprise Java Beans.
 - (d) Describe a general JDBC Architecture and name the common JDBC API components?
 - (e) Explain the steps how to create a simple MVC application using Servlet and JSP.
 - (f) Describe the constrained properties and Introspection of Java Bean?
 - (g) Write a XML Program to display the information about the Voter in the Voter Id Card. Describe your own tags and write appropriate DTD for it.
- 2) Using JDBC concepts write a Program to perform the task of Insertion, Updation, and Deletion of records in MS-Access database/ORACLE database for Student Management System. Assume appropriate table schema with suitable records inside it to perform the task. Clearly state your assumptions. (10)
- 3) What is Servlet? Explain Life cycle of a servlet? Compare and Contrast between Generic and HTTP Servlet? (10)
- 4) Write complete HTML Program to design a 'Online Shopping' Web site like FlipKart or Snapdeal etc. (10)
- 5) Write short notes on (**any two**): (5x2=10)
(a) JSDK
(b) Session Tracking in Servlets/JSP
(c) Deployment Descriptor File

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END TERM EXAMINATION

SEVENTH SEMESTER [B.TECH./M.TECH.] DEC. 2014 – JAN. 2015

Paper Code: IT413

Subject: Front End Design Tools &
Web Technologies

Time : 3 Hours

Maximum Marks :60

Note: Attempt any five questions including Q.no. 1 which is compulsory.

- Q1 Explain the following:- (5x4=20)
- (a) Define Servlets. Explain the Servlets life cycle.
 - (b) Define EJB. How EJB is better than Java beans?
 - (c) Explain Struts framework. Give its advantage and application.
 - (d) Define CSS. What are the different types of style sheets? Explain with example.
- Q2 (a) Differentiate between HTML and XML. (5)
(b) Define JavaScript. Explain some of the objects of JavaScript. (5)
- Q3 (a) Define WWW. Explain HTTP and SMTP protocol. (5)
(b) Write the HTML code to create nested frame. (5)
- Q4 (a) What are Javabeans? Give some of its advantages. Explain Javabean API. (5)
(b) Briefly explain DOM and SAX. (5)
- Q5 (a) How do we handle http request and response in Servlet? (5)
(b) How Cookies are used for session tracking? (5)
- Q6 Write short notes on any two of the following:- (5x2=10)
- (a) XML Schemas
 - (b) DHTML
 - (c) JSP Implicit Objects
- Q7 (a) How can we deploy a Java bean in a JSP page? (5)
(b) Explain with an example the use of javax.sql.* package. (5)
- Q8 (a) Write the code to show database programming using JDBC.
(b) Give short note on MVC architecture. (8)
(2)

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END TERM EXAMINATION

SEVENTH SEMESTER [B.TECH./M.TECH.] DECEMBER 2013

Paper Code: IT413

Subject: Front End Design Tools &
Web Technologies

Time : 3 Hours

Maximum Marks :60

Note: Attempt any four questions including Q.no.1 which is compulsory.

Q.1 Attempt any 5 parts of the following:-

(5x6 = 30)

- (a) Explain the n-tier and MVC architecture of enterprise computing.
- (b) Write the code of a servlet that displays "GGSIP UNIVERSITY,DELHI" on a web browser in BLUE color, italics and center aligned.
- (c) Define Scriptlets, Directives and Action of JSP.
- (d) Define the Servlet life Cycle.
- (e) Describe the HTTP,SMTP and MIME.
- (f) What are Cookies. Using Servlet/JSP write a Program to create Cookies.

Q.2 (a) Compare and Contrast between Java Beans and Enterprise Java Beans(EJB)

(5)

- (b) Explain the lifecycle of JSP Page.

(5)

Q.3 (a) Explain the various types of JDBC drivers.

(5)

- (b) Using JDBC, write the code for a java program to fetch and display the details of a employee from the 'employee' table already stored in the database .

(5)

Q.4 Write short notes on the following (Any two):

(5x2 = 10)

- (a) JAAS
- (b) JDBC
- (c) JMS
- (d) JSDK.

Q.5 Using HTML design a design a Web Page for Retired Employees having fields like

- Employee ID, Employee Name, Employee Age, Last Designation held, Employee Address, Employee Phone number, Employee Email Id , Date of Retirement , Amount of Pension etc with appropriate JAVASCRIPT Validations.

(10)

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END TERM EXAMINATION

SEVENTH SEMESTER [B.TECH./M.TECH.] DECEMBER-2012

Paper Code: IT413

Subject: Front End Design Tools &
Web Technologies

Time : 3 Hours

Maximum Marks :60

Note: Attempt any four questions including Q.no.1 which is compulsory.

Q1) Attempt any six parts

(5x6=30 Marks)

- a) Name and explain the four type of drivers used in JDBC
- b) Discuss the differences between doGet() and doPost() of HTTP Servlet.
- c) What is a Session. What are the different ways in which session tracking is performed.
- d) Differentiate between the Session Bean and Entity Bean.
- e) Describe the Scriptlets, Directives and Action tags as used in JSP.
- f) Write a HTML based Program to accept the values for UserId and Password.
Apply appropriate Javascript validations.
- g) Describe the different features and properties of Java Beans

Q2) Write a HTML based Program to design a Web Site for educational institution.

Assume appropriate links/hyperlinks. (Web Site should contain One home and two or three reference page) (10 Marks)

Q3) Write a JDBC based Program to dynamically update the salary of employee from 10,000 to Rs 33,000 and his address from NOIDA to DELHI in the employee table of the database. Assume appropriate fields of the employee table. (10 Marks)

Q4).Write a Servlet based program to display all the values of HTTP Request header packet. (10 Marks)

Q6) Write Short Notes on :-

(5x2=10 Marks)

- a) HTTP and MIME
- b) JSP life Cycle
- c) DOM and SAX

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SEVENTH SEMESTER [B.TECH./M.TECH.] - DECEMBER 2010			
Paper Code: IT413 Paper ID: 15413 Time : 3 Hours	Subject: Front Design Tools & Web Technologies	Maximum Marks : 60	
Note: Attempt any five questions.			

- Q1** a). Discuss the differences between HTTP and SMTP protocol. (4)
- b). Discuss the benefits of Java script in Dynamic HTML. (4)
- c). Explain about Cascading Style sheets. (4)
- Q2**. Design a website for Online Air ticket reservation. The website should contain the report Generation if user wants to check his itinerary on yearly basis. Website should also contain the important features on any airline management system. (12)
- Q3.** a) Explain the benefits of Java Beans to design a website. (6)
- b). Discuss the followings (6)
- 1) EJB 2). BDK
- Q4).** a. What do you know about the life cycle of a servelet. Explain in detail. (6)
- b). Discuss the various functions of javax.servelet HTTP packages. (6)
- Q5).** a). Discuss the Security issues involved in during the website designing or during HTTP request & response. (8)
- b). Explain the anatomy of JSP page. (4)
- Q6).a).** How does Javax.sql package useful for database ? Is JDBC is required to use this package (6)
- b). discuss and explain the strut framework in detail (6).
- Q7).** Write the functions/steps for the followings. (4*3=12)
- a) access database from JSP page
- b). to read Servelet parameters through a webpage
- c). use of Java Beans in a JSP page.
- Q8) Write short notes on any two** (6*2=12)
- a). XML processor b). JSP and MVC c). MIME and POP3

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