SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

SRM Nagar, Kattankulathur – 603 203

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

QUESTION BANK

V SEMESTER

1908501-Web Technology

Regulation – 2019

Academic Year 2022 – 2023 (Odd Semester)

Prepared by

Dr. G. Kumaresan, Assistant Professor (Sel.G)/CSE

Mr.G.Vivekanandan, Assistant Professor (O.G)/IT

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SUBJECT : 1908501 Web Technology

SEM / YEAR: V Sem/ III Year

UNIT I - WEB SITE BASICS AND HTML			
Web Essentials: Clients, Servers, and Communication. The Internet-Basic Internet Protocols -The World Wide Web-HTTP request message-response Message-Web Clients Web Servers. Markup Languages: XHTML. An Introduction to HTML History-Versions-Basic XHTML Syntax and Semantics-Some Fundamental HTML Elements-Relative URLs-Lists-tables-Frames-Forms-HTML 5.0.			
PART – A			
Q.No	**Questions**	**BT Level**	**Competence**
1.	List any four common browsers.	BTL1	Remembering
2.	Define URI.	BTL1	Remembering
3.	State the use of web server logs and list the contents of a message log.	BTL2	Understanding
4.	List the different basic protocols used in Internet.	BTL1	Remembering
5.	What do you mean by Relative URLs?	BTL1	Remembering
6.	Write the functions of a Web Server.	BTL2	Understanding
7.	Explain the way in which a DNS server resolves addresses.	BTL5	Evaluating
8.	State the uses of Internet Protocol.	BTL2	Understanding
9.	Write short notes on basic Internet protocols.	BTL2	Understanding
10.	List and explain the three flavors of HTML.	BTL1	Remembering
11.	State the function of DNS and the protocol used.	BTL3	Applying
12.	List and explain any two HTML elements.	BTL1	Remembering
13.	Create two rows of horizontal frames using HTML frames.	BTL6	Creating
14.	Write HTML code to display an image.	BTL3	Applying
15.	How will you create a password field in a HTML form?	BTL4	Analyzing
16.	Write HTML code to create the following table, W X Y Z	BTL6	Creating
17.	Differentiate HTML and XHTML.	BTL4	Analyzing

18.	What is meant by canvas in HTML?	BTL5	Evaluating
19.	Model the syntax to display the following statement “I am learning **Web** Programming”	BTL3	Applying
20.	Discover how a scripting language differs from HTML?	BTL4	Analyzing
21.	Discuss about frame in HTML.	BTL2	Understanding
22.	Write the difference between Class and ID	BTL3	Applying
23.	Compare features of XML and HTML	BTL4	Analyzing
24.	Justify the advantage of HTML5.0	BTL5	Evaluating
PART – B			
1.	(i)Explain TCP/IP in detail. (7) (ii)Explain the purpose and way of creating lists in HTML documents. (6)	BTL2	Understanding
2.	Recall in detail about Internet and World Wide Web. (13)	BTL1	Remembering
3.	Explain in detail the working of the following Internet Protocols. (i) TCP/IP (7) (ii) HTTP (6)	BTL2	Understanding
4.	(i)List and explain any four HTML elements in detail. (7) (ii)State the types of lists supported by HTML and explain them in detail. (6)	BTL1	Remembering
5.	Create a HTML document for a company home page. (13)	BTL6	Creating
6.	(i) Explain the capabilities of web client and web server. (7) (ii) Write and explain HTTP request message format. (6)	BTL4	Analyzing
7.	Explain the significance of XHTML with the help of a real time application. Write necessary code snippets. (13)	BTL5	Evaluating
8.	How do you create frames? Why do we need them? Develop an application to explain the same. (13)	BTL4	Analyzing
9.	(i)Explain the use of relative URL’s with an example. (7) (ii)Explain how tables can be inserted into a HTML document with an example. (6)	BTL3	Applying
10.	(i)List any two differences between HTML respects to elements and XHTML with Also explain about the XHTML DTD. (7) (ii)Discuss on any four HTTP request methods. (6)	BTL1	Remembering
11.	Explain HTML forms in detail along with form elements, attributes and methods. Write an HTML document to provide a form that collect name and telephone numbers. (13)	BTL2	Understanding
12.	Examine the basic XHTML syntax and semantics. (13)	BTL4	Analyzing
13.	(i)Explain in detail the functions of a web server. (7) (ii)Give the structure of HTTP request and response messages. (6)	BTL3	Applying
14.	Define HTML 5.0. List and explain some of the HTML 5.0 tags with examples. (13)	BTL1	Remembering

15.	Illustrate Frameset, Frame Tag. Divide the web page into four equal parts each individual part displays different web page (13)	BTL3	Applying
16.	i) Explain the structure of the HTML webpage with an example (7). ii) Define List Tag with an example.(6)	BTL5	Evaluating
17.	i) Describe the need of scripting languages in web Technologies (7) ii) Build a HTML program to convert temperature from Celsius to Fahrenheit and vice versa.(6)	BTL2	Understanding
PART – C			
1.	(i)Give the structure of HTTP request message and explain it in detail. (8) (ii)List and explain the steps involved in a web based client server communication. (7)	BTL5	Evaluating
2.	(i)State and explain any four HTML elements in detail. (8) (ii)Explain the way in which data can be presented in a tabular form using HTML. (7)	BTL5	Evaluating
3.	Develop an interactive web page for student registration using HTML form elements. (15)	BTL6	Creating
4.	Briefly discuss the HTML frame and table tags. (15)	BTL6	Creating
5.	i) Name some new features which were not present in HTML but are added to HTML5? (7) ii) Write an HTML code to form a table to show the below values in a tabular form with heading as Roll No., Student name, Subject Name, and values as.(8)	BTL6	Creating

UNIT II - CSS AND CLIENT SIDE SCRIPTING

Style Sheets: CSS-Introduction to Cascading Style Sheets-Features-Core Syntax-Style Sheets and HTML-Style Rule Cascading and Inheritance-Text Properties-Box Model Normal Flow Box Layout-Beyond the Normal Flow-CSS3.0. Client-Side Programming: The JavaScript Language-History and Versions Introduction JavaScript in Perspective-Syntax-Variables and Data Types-Statements-Operators-Literals-Functions-Objects-Arrays-Built-in Objects-JavaScript Debuggers.

PART – A

Q.No	Questions	BT Level	Competence
1.	Give the syntax of a CSS rule.	BTL2	Understanding
2.	Mention the need for cascading style sheets.	BTL3	Applying
3.	Give example for inline style sheet.	BTL2	Understanding
4.	How will you include CSS in a web site?	BTL4	Analyzing
5.	Give some advantages of using Cascading Style Sheets.	BTL2	Understanding
6.	How external style sheet is useful in web page design?	BTL4	Analyzing
7.	Write short notes on text properties in CSS with suitable example.	BTL1	Remembering
8.	What is Normal Flow Box Layout in CSS?	BTL1	Remembering
9.	List the two forms of style rules with an example.	BTL1	Remembering
10.	What is meant by DHTML?	BTL1	Remembering

11.	List the ways of positioning an element within a browser window.	BTL1	Remembering
12.	What is a JavaScript statement? Give an example.	BTL1	Remembering
13.	Explain array creation in JavaScript with example.	BTL2	Understanding
14.	List the different methods defined in document and window object of JavaScript.	BTL4	Analyzing
15.	List and explain any two JavaScript built in objects.	BTL5	Evaluating
16.	State the types of JavaScript statements with examples.	BTL3	Applying
17.	Write the JavaScript to print “Good Day” using IF-ELSE condition.	BTL5	Evaluating
18.	Write code to return the full URL of a document.	BTL6	Creating
19.	Compile the limitations of CSS.	BTL6	Creating
20.	Apply CSS to a web page with the following requirements (i) Add a background image of a submarine. (ii) Set a color to the span elements (different color for each class)	BTL3	Applying
21.	Discuss about Cascading Style Sheets with an example.	BTL2	Understanding
22.	Write Limitation of CSS	BTL3	Applying
23.	Categorize the advantages of CSS	BTL4	Analyzing
24.	Examine the CSS Frameworks	BTL5	Evaluating
	PART – B		
1.	(i) Discuss about JavaScript debugging. (7) (ii) Explain in detail CSS border and CSS outline. (6)	BTL4	Analyzing
2.	(i) Explain any eight CSS text properties. (7) (ii) Discuss JavaScript Array object in detail. (6)	BTL1	Remembering
3.	(i)List and explain in detail various selector strings. (7) (ii)Explain the features of cascading style sheets. (6)	BTL2	Understanding
4.	(i)Write a CSS which adds background images and indentation. (7) (ii)Explain external style sheet with an example. (6)	BTL2	Understanding
5.	(i)Explain in detail the CSS Box model in detail. (7) (ii)List and explain the various positioning schemes in detail. (6)	BTL3	Applying
6.	List and describe the CSS Border Style Properties in detail with illustration. (13)	BTL1	Remembering
7.	Apply CSS to a web page with the following requirements (i) Paint the background gray (2) (ii) Paint the sidebar yellow (2) (iii)Set the artist h1 to be only uppercase (2) (iv)Set the title h2 to be uppercase-first letter (2) (v) Set a line spacing between the lines (2) (vi) Set letter spacing between the letters in each span of type instruction (3)	BTL3	Applying
8.	(i)State and explain the types of statements in JavaScript. (6) (ii)Explain how functions can be written in JavaScript with an example. (7)	BTL4	Analyzing

9.	Summarize about debugging in JavaScript. (13)	BTL2	Understanding
10.	What are the various JavaScript objects? Explain each with an example. (13)	BTL1	Remembering
11.	Show in detail about JavaScript variables and operators. (13)	BTL1	Remembering
12.	Write the registration form for the creation of email account with all possible validations using JavaScript. (13)	BTL5	Evaluating
13.	(i)Explain the JavaScript array handling and array methods. (7) (ii)Explain the following JavaScript objects. (6) RegExp, Math	BTL4	Analyzing
14.	(i)Write JavaScript to find sum of first 'n' even numbers and display the result. Get the value of 'n' from user. (7) (ii)Write JavaScript to find factorial of a given number. (6)	BTL6	Creating
15.	Compare Grouping and Nesting in CSS ? (3)	BTL3	Applying
16.	a) Distinguish between CGI and Servlets.(6) b) Develop a Servlet that handles an HTTP POST request.(7)	BTL5	Evaluating
17.	Explain about the different methods used for Session tracking.(13)	BTL2	Understanding
PART – C			
1.	Discuss the various aspects of Normal Flow Box Layout in the context of CSS. (15)	BTL6	Creating
2.	Explain in detail about CSS3. Give the illustration for CSS3 animation. (15)	BTL5	Evaluating
3.	(i) Explain the way in which JavaScript handles arrays with example. (8) (ii)Explain how local and global functions can be written using JavaScript. (7)	BTL5	Evaluating
4.	(i)Discuss how do you use JavaScript for form validation? Develop a complete application that would include information functions to validate the user data. (10) (ii)Write short notes on JavaScript built-in objects. (5)	BTL6	Creating
5.	Explain about the get Property () and set Property () of beans in jsp.? (15)	BTL5	Evaluating

UNIT III - CLIENT SIDE TECHNOLOGIES

Model-View-Controller Paradigm, Representing Web Data: XML-Documents and Vocabularies-Versions and Declaration-Namespaces-DOM based XML processing Event-oriented Parsing: SAX-Transforming XML Documents-Selecting XML Data: XPATH-Template based Transformations: XSLT-Displaying XML Documents in Browsers.

PART – A

Q.No	Questions	BT Level	Competence
1.	What is meant by is MVC paradigm?	BTL1	Remembering
2.	List the main purpose of namespace.	BTL1	Remembering

3.	Compare DTD Vs XPATH.	BTL5	Evaluating
4.	What are the advantages of XPATH?	BTL1	Remembering
5.	State XSLT.	BTL1	Remembering
6.	Point out the basic purpose of XSLT.	BTL4	Analyzing
7.	Differentiate CDATA and PCDATA.	BTL4	Analyzing
8.	Define XML parse tree.?	BTL1	Remembering
9.	Show an example for XML namespace.	BTL2	Understanding
10.	Assess the data types in XML schema.	BTL4	Analyzing
11.	Summarize about the need for Namespace in XML.	BTL3	Applying
12.	Draw a neat diagram for XML Parse tree.	BTL6	Creating
13.	Illustrate the process of displaying XML document in browser.	BTL3	Applying
14.	Examine DTD for XML Schemas.	BTL3	Applying
15.	Formulate the declaration for elements in XML.	BTL6	Creating
16.	Give some of the important tool for development of web applications.	BTL2	Understanding
17.	Express XSL elements.	BTL2	Understanding
18.	Explain the DOM in XML processing.	BTL5	Evaluating
19.	Write the data types of XML.	BTL1	Remembering
20.	Discuss data types of XML.	BTL2	Understanding
21.	Compare the difference between XML and HTML	BTL2	Understanding
22.	Identify the elements of a XML tree.	BTL3	Applying
23.	List the disadvantages of SAX	BTL4	Analyzing
24.	Interpret how an XML DOM Parser Errors can be identified.	BTL5	Evaluating
PART – B			
1.	(i) List and explain the XML syntax rules in detail. (7) (ii) Explain how XML document can be displayed on a browser.(6)	BTL1	Remembering
2.	(i) Explain the role of XML name spaces with examples. (7) (ii) Explain the features of XML path language.(6)	BTL2	Understanding
3.	Write XSLT code to display employee details in a Table form which is stored is XML.(13)	BTL3	Applying
4.	(i) Explain in detail about XSL. (7) (ii) Explain about DOM based XML processing.(6)	BTL2	Understanding
5.	Describe in detail about the XML schema, built in and user defined data type detail.(13)	BTL1	Understanding

6.	Describe in detail about the differences between DTD and XML schema for defining XML document structures with appropriate examples.(13)	BTL1	Remembering
7.	(i) Demonstrate the building blocks of DOM. (7) (ii) Classify the types of DTD. (6)	BTL3	Applying
8.	Summarize on the following (i) DOM based Parsing. (7) (ii) SAX based Parsing. (6)	BTL2	Understanding
9.	Write short notes on: i) XPATH. (5) ii) XSL elements. (4) iii) Parse tree (4)	BTL6	Creating
10.	Discover XML document to store voter ID, voter name, address and date of birth details and validate the document with the help of DTD. (13)	BTL4	Analyzing
11.	(i) Explain XPATH nodes in detail. (7) (ii) Explain about XML Schema in detail.(6)	BTL5	Evaluating
12.	Explain in detail about (i) XSL and XSLT transformation (7) (ii) Comparison of DOM & SAX(6)	BTL4	Analyzing
13.	(i) List out data types data types of XML (7) (ii) Explain about the attributes of XML. (6)	BTL1	Remembering
14.	Summarize in detail the XML schema, built in and user defined data types. (13)	BTL4	Analyzing
15.	Demonstrate how can both Internal and External DTDs be used in an XML File? Show with an Example (13)	BTL3	Applying
16.	Explain the procedure for validating the XML Documents. (13)	BTL5	Evaluating
17.	Summarize about XML Schema with an example. (13)	BTL2	Understanding
PART – C			
1.	Briefly Explain about MVC architecture in detail. (15)	BTL6	Creating
2.	Summarize about XML schema and XML Parsers and Validation. (15)	BTL5	Evaluating
3.	Get the students' details like name, register number and mark using form. Generate DTD for this XML document. Name Reg no Mark. (15)	BTL5	Evaluating
4.	Explain how XSLT transforms the document from one (Word) type to other type (HTML). (15)	BTL6	Creating
5.	Summarize the Advantages, Disadvantages and Features of SAX parser.(15)	BTL5	Evaluating

UNIT IV SERVER SIDE TECHNOLOGIES

Server-Side Programming: Java Servlets-Architecture -Overview-A Servlet-Generating Dynamic Content-Life Cycle-Parameter Data-Sessions-Cookies-URL Rewriting-Other Capabilities-Data Storage Servlets and Concurrency-Databases and Java Servlets. Separating Programming and Presentation: JSP Technology Introduction-JSP and Servlets-Running JSP Applications Basic JSP-JavaBeans Classes and JSP-Tag Libraries and Files-Support for the Model-View-Controller Paradigm-Databases and JSP.

PART – A

Q.No	Questions	BT Level	Competence
1.	What are servlets?	BTL1	Remembering
2.	List the application of servlets.	BTL1	Remembering
3.	Summarize the advantages and disadvantages of servlets.	BTL2	Understanding
4.	Show how is session tracking is achieved by the URL rewriting?	BTL3	Applying
5.	Compare GET and POST request type.	BTL4	Analyzing
6.	Summarize the servlet interface and its methods.	BTL5	Evaluating
7.	Sketch the Servlet life cycle.	BTL3	Applying
8.	How is session tracking achieved by URL rewriting?	BTL3	Applying
9.	Quote the uses of cookies.	BTL1	Remembering
10.	Analyze about java scriplet.	BTL4	Analyzing
11.	Express the purpose of URL rewriting.	BTL2	Understanding
12.	Define JSP.	BTL1	Remembering
13.	List any three advantages of java servlet over JSP.	BTL1	Remembering
14.	Rewrite the code segment to store current server time in session using Java Servlet API.	BTL6	Creating
15.	Compare the difference between JSP and servlet.	BTL4	Analyzing
16.	Summarize briefly about the interaction between a webserver and a servlet.	BTL5	Evaluating
17.	List the types of directives in JSP.	BTL1	Remembering
18.	Formulate the three methods that are central to the life cycle of the servlet.	BTL6	Creating
19.	Distinguish between servlets and JSP.	BTL2	Understanding
20.	Discuss the need to use JSTL tags?	BTL2	Understanding
21.	Why do we need Servlet Filter?	BTL2	Understanding
22.	Can a JSP be called using a Servlet?	BTL3	Applying
23.	How to get the server information in a servlet?	BTL4	Analyzing
24.	Write a simple Servlet program to print the contents of HTML.	BTL5	Evaluating

PART – B

1.	(i)Integrate how servlets work and its lifecycle. (ii)Explain and develop the Servlet API.(13)	BTL6	Creating

<table>
<tr><td>2.</td><td>Write a servlet to illustrate the principle of Cookies and explain.(13)</td><td>BTL4</td><td>Analyzing</td></tr>
<tr><td>3.</td><td>Demonstrate the Servlet architecture and explain its working principle.(13)</td><td>BTL2</td><td>Understanding</td></tr>
<tr><td>4.</td><td>Consider a database that has a table Employee with two columns Employee Id and Name. Assume that the administrator user id and password to access to access the database table are Scott and Tiger. Write a JDBC program that can query and print all entries in the table employee. Make the database using type 2 driver database.(13)</td><td>BTL5</td><td>Evaluating</td></tr>
<tr><td>5.</td><td>Describe in detail the session handling in server side programming. (13)</td><td>BTL1</td><td>Remembering</td></tr>
<tr><td>6.</td><td>(i)Discuss about JSTL. (7)
(ii)Summarize a client server JSP program to find simple interest and display the result in client.(6)</td><td>BTL2</td><td>Understanding</td></tr>
<tr><td>7.</td><td>Explain the use of cookies for tracking for tracking requests with a program.(13)</td><td>BTL4</td><td>Analyzing</td></tr>
<tr><td>8.</td><td>(i)Explain about the standard actions in JSP. (7)
(ii)Analyze MVC architecture of JSP.(6)</td><td>BTL4</td><td>Analyzing</td></tr>
<tr><td>9.</td><td>Explain in detail about a JSP code to access a table and records from a student database to obtain the result of a student.(13)</td><td>BTL1</td><td>Remembering</td></tr>
<tr><td>10.</td><td>Demonstrate the information in a JSP document in detail.(13)</td><td>BTL3</td><td>Applying</td></tr>
<tr><td>11.</td><td>(i)Discuss about the Servlet lifecycle. (8)
(ii)List JSP advantages.(5)</td><td>BTL2</td><td>Understanding</td></tr>
<tr><td>12.</td><td>(i)Explain and write a simple JDBC Program. (7)
(ii)List various JSP scripting components.(6)</td><td>BTL1</td><td>Remembering</td></tr>
<tr><td>13.</td><td>Demonstrate with suitable example for core and formatting tags in JSTL. (13)</td><td>BTL3</td><td>Applying</td></tr>
<tr><td>14.</td><td>What is a JavaBeans component? How will you use the JSP language elements for accessing Beans in your JSP pages? (13)</td><td>BTL1</td><td>Remembering</td></tr>
<tr><td>15.</td><td>Compare the Get request and the Post request type in Servlets.</td><td>BTL2</td><td>Understanding</td></tr>
<tr><td>16.</td><td>Illustrate with suitable example for SQL and XML tags in JSTL. (13)</td><td>BTL3</td><td>Applying</td></tr>
<tr><td>17.</td><td>Choose a JSP program to show a Sample Order Form. (13)
<table>
<tr><td>Item</td><td>Price</td><td>Quantity</td><td>Total Price</td></tr>
<tr><td>DVD</td><td></td><td></td><td></td></tr>
<tr><td>HDD</td><td></td><td></td><td></td></tr>
<tr><td>…</td><td></td><td></td><td></td></tr>
</table></td><td>BTL5</td><td>Evaluating</td></tr>
<tr><td colspan="4">PART – C</td></tr>
<tr><td>1</td><td>Design a Servlet program to display the waiting list status, given the PNR number of a train. Create a JSP to display the information at the client end. (15)</td><td>BTL6</td><td>Creating</td></tr>
<tr><td>2</td><td>Evaluate a Java Servlet to display net salary of employee, use JDBC connectivity to get employee details from database.(15)</td><td>BTL5</td><td>Evaluating</td></tr>
<tr><td>3</td><td>Explain the ways of storing and accessing information using cookies and handling associated issues.(15)</td><td>BTL5</td><td>Evaluating</td></tr>
</table>

4	Develop a JSP program to display the grade of a student by accepting the marks of five subjects.(15)	BTL6	Creating
5	Design a client server JSP program to find simple interest, compound interest and display the result in client.(15)	BTL6	Creating

UNIT V APPLICATION DEVELOPMENT ENVIRONMENT			
Overview of MVC architecture – Java Server Faces: Features – Components – Tags – Struts: Working principle of Struts – Building model components – View components – Controller components – Forms with Struts – Presentation tags – Developing Web applications – Hibernate: Configuration Settings – Mapping persistent classes – Working with persistent objects – Concurrency – Transactions – Caching – Queries for retrieval of objects – Spring: Framework – Controllers – Developing simple applications			
PART – A			
Q. No	**Questions**	**BT Level**	**Competence**
1.	What is Struts?	BTL1	Remembering
2.	List the types of framework architectures	BTL1	Remembering
3.	Recall the basic components of struts.	BTL1	Remembering
4.	What is Model?	BTL1	Remembering
5.	Tell about View.	BTL1	Remembering
6.	What is meant by Controller?	BTL1	Remembering
7.	Illustrate the HTML Tag library.	BTL2	Understanding
8.	Outline what the authenticate( ) method verifies and returns.	BTL2	Understanding
9.	Interpret Server.	BTL2	Understanding
10.	Write a short note on Client.	BTL3	Applying
11.	Show the Struts' HTML/JSP View layer components.	BTL2	Understanding
12.	Experiment with The reset( ) Method in ActionForm.	BTL3	Applying
13.	Write the signature for the validate( ) Method.	BTL3	Applying
14.	Analyze and list the Struts tag libraries and their purpose.	BTL4	Analyzing
15.	List the Alternative View Technologies.	BTL4	Analyzing
16.	Define MVC.	BTL4	Analyzing
17.	What is Framework?	BTL5	Evaluating
18.	Evaluate Framework applications.	BTL5	Evaluating
19.	Write a short theory on Hibernate.	BTL6	Creating
20.	What do you know about the advantage of Spring framework with hibernate?	BTL6	Creating
21.	Show what is a client.	BTL2	Understanding
22.	Construct a MVC architecture diagram.	BTL3	Applying
23.	List jar files required to run spring application	BTL4	Analyzing
24.	Justify need of JSF basic tags.	BTL5	Evaluating
PART-B			

1.	Explain briefly MVC architecture. (13)	BTL1	Remembering
2.	How will you Review the Model Layer of a web Application? (13)	BTL4	Analyzing
3.	Briefly discuss about Struts and the View Layer. (13)	BTL1	Remembering
4.	Write a detailed note on the following Hibernate. (i)Hibernate Configuration Settings (7) (ii)Mapping persistent classes (6)	BTL1	Remembering
5.	Summarize Struts and the Controller Layer. (13)	BTL2	Understanding
6.	Demonstrate The process*( ) Methods of the RequestN Processor Class. (13)	BTL2	Understanding
7.	Explain The Action Class in detail with example. (13)	BTL2	Understanding
8.	Discuss in detail Concurrency and Transactions. (13)	BTL3	Applying
9.	Give a detailed note on Client side features. (13)	BTL1	Remembering
10.	Analyze in detail Framework applications.(13)	BTL4	Analyzing
11.	Identify the types of framework architecture and explain each type in detail. (13)	BTL3	Applying
12.	Discover Framework based applications with example. (13)	BTL4	Analyzing
13.	Criticize Spring framework in detail. (13)	BTL5	Evaluating
14.	Generalize about Caching strategies and Scopes. (13)	BTL6	Creating
15.	Discuss in detail core components of struts architecture. (13)	BTL2	Understanding
16.	Explain the steps to create web application using hibernate. (13)	BTL5	Evaluating
17.	Develop steps to create a spring application in Eclipse IDE (13)	BTL3	Applying
PART-C			
1.	Evaluate Adding the view to the List of URLs. (15)	BTL5	Evaluating
2.	Examine lists each of the tags in the Nested Tag Library and provides a short description of each tag's purpose. (15)	BTL6	Creating
3.	(i)Justify use of 'Controllers' in Spring Framework. (8) (ii)Evaluate Queries for retrieval of objects. (7)	BTL5	Evaluating
4.	How the configuration tags must be ordered in the file, what settings are required? Build the Struts configuration file which is XML-based and its format should be governed by a Document Type Definition (DTD) file. (15)	BTL6	Creating
5.	Design and develop any Web Application with Java Server Faces. (15)	BTL6	Creating

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