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Question Paper Code: BCS204



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

M.Tech I Semester End Examinations (Regular) - February, 2018

Regulation: IARE-R16

Advanced Web Technologies  
(Computer Science and Engineering )

Time: 3 Hours

Max Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

## UNIT – I

1. (a) Write HTML code for creating the following form. Note that Name and email are mandatory fields. Further, where did you hear about us must have three options Internet, TV and Magazine. [7M]

### Customer Information

Name \*

City

E-mail \*

Where did you hear about us?  ▼

Figure 1

- (b) What are the different types of lists in HTML? Explain any two with an example for each. [7M]
2. (a) Write a Java Script to validate the name and password. The name can't be empty and password can't be less than 6 characters long. Design an HTML form also as a test driver for the same. [7M]
- (b) What is XHTML? Explain the difference between HTML and XHTML. [7M]

## UNIT – II

3. (a) Develop a Java Servlet that illustrates how to use cookies. The servlet must be invoked when a form on a web page is submitted. The code must demonstrate how to add cookie and retrieve cookie information. [7M]
- (b) Write a brief note on session tracking using Java Servlet. [7M]

4. (a) What is SAX XML Parser? List any four differences between DOM and SAX XML Parser. [7M]  
(b) Write a brief note on Hibernate. List out the steps involved in hibernation. [7M]

### UNIT – III

5. (a) With a simple page counter, illustrate how the scope affects the lifetime and reach the shared information. [7M]  
(b) What are JSP directive elements? Explain declarations and expressions. [7M]
6. (a) Illustrate declaration of UseBean in a JSP page with a suitable example. [7M]  
(b) Assume that you have Employee table in EMP database (MySQL) with fields empid, first name, last name and age. Write a JSP script to execute SQL INSERT statement. [7M]

### UNIT – IV

7. (a) What is the significance of Model, View and Controller w.r.t struts framework. [7M]  
(b) Assume that form in our application to get address of a user. The form includes name, street, city, country and pin. As per the application requirement Name, City and Pin are the mandatory fields. Validation must be carried out to the form data while it is submitted by user and if any of the validation fails, it must be informed to users. Write code for execute method of AddressAction class, contents of MessageResources.properties and configurations to be done in struts-config.xml. [7M]
8. (a) What is the significance of struts.config.xml file [7M]  
(b) Discuss how JSP is used as presentation layer in struts framework. [7M]

### UNIT – V

9. (a) What is Service-Oriented Architecture (SOA)? List any two goals of SOA? Describe the key organizing concept of SOA. [7M]  
(b) Discuss the following components of a SOAP message. [7M]
10. (a) A WSDL definition document consists of seven key structural elements. Discuss any five of them. [7M]  
(b) Explain briefly any two ways to ensure service requestor interoperability with the service providers. [7M]