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Question Paper Code: BCS204



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

M.Tech I Semester End Examinations (Regular) - February, 2017

Regulation: IARE-R16

Advanced Web Technologies  
(Computer Science and Engineering )

Time: 3 Hours

Max Marks: 70

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Answer ONE Question from each Unit

All Questions Carry Equal Marks

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

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## UNIT – I

- (a) Define the purpose of a Cascading Style Sheet(CSS). What are CSS selectors? [7M]

(b) Write a javascript to display the denomination of the amount deposited in the bank in terms of 100's, 50's, 20's, 10's, 5's & 1's. (Eg: If deposited amount is Rs.272, the output should be 2 Hundreds, 1 Fifties, 1 Twenties, 2 ones) [7M]
- (a) Write a javascript function that finds primes numbers up to a given Integer. [7M]

(b) How web pages can be divided in to horizontal and vertical Frames? Explain the name and Target properties of a Frame Tag? [7M]

## UNIT – II

- (a) With an example explain the XML file representation and navigation process followed by XML DOM. [7M]

(b) With a sample code, illustrate Parameter Request and Response by a servlet? [7M]
- (a) What is AJAX? With a simple program explain the working of AJAX. [7M]

(b) Write short notes on XML HttpRequest Object. [7M]

## UNIT – III

- (a) How JSP allows sharing of data objects among the pages? [7M]

(b) What is a Java bean? How beans are used in a JSP page? [7M]
- (a) Write a simple JSP code to insert and retrieve data from a database. [7M]

(b) Write the syntax of various JSP constructs and explain them. [7M]

## UNIT – IV

7. (a) Using struts create the following layout.

[7M]

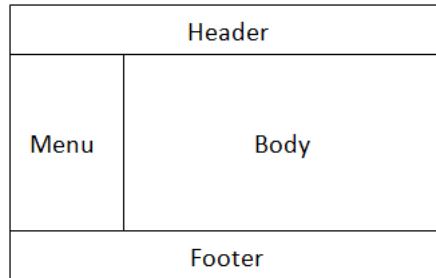


Figure 1

- (b) With a neat diagram explain the anatomy of a struts application [7M]
8. (a) Using Struts create a login application and with sample data validate login details. [7M]
- (b) With a neat diagram explain the struts implementation of MVC. [7M]

## UNIT – V

9. (a) Describe the structure of a SOAP message and explain each component. [7M]
- (b) Define a web service? How .NET and J2EE technologies support web services? [7M]
10. (a) How web services are installed and deployed on Axis server. [7M]
- (b) Write a program for a Web Service client which will call the echoString method on the public Axis server at Apache. [7M]