

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Revised)**

Term-End Examination

00344

December, 2014

BCS-053 : WEB PROGRAMMING

Time : 2 hours

Maximum Marks : 50

(Weightage 75%)

Note : *Question number 1 is compulsory and carries 20 marks. Attempt any **three** questions from the rest.*

1. (a) What are the advantages of using CSS for an HTML document ? How can you link an external style sheet to an HTML document ? Explain how you can change the background colour of a web page using a style sheet. 4
- (b) Create an XML document that stores the name (first name and last name), enrolment number and at least one phone number of a student. Create such information for at least two students. Create the DTD that validates the XML document created by you. 5
- (c) Explain the concept of Document Object Model (DOM) with the help of an example. 3

- (d) What is a cookie in the context of JSP ? Why is it needed ? Explain how a cookie can be set with the help of an example. 4
- (e) List the steps that would be required to verify the username and password entered by a user on a login page to the information stored in a database, using JSP. 4
2. (a) Differentiate between the following : 6
- (i) Static web pages and Dynamic web pages
 - (ii) 2-Tier architecture and 3-Tier architecture
- (b) What is an exception in the context of JSP ? How are the exceptions handled using JSP ? Explain with the help of an example. 4
3. (a) Explain the features of the following Web 2.0 technologies : 6
- (i) Blogging
 - (ii) Rich Internet Applications
 - (iii) Mashups
- (b) Explain the Box Model of HTML with the help of a diagram. Why is this model needed ? 4

4. (a) What is the need of WML ? Explain any two elements of WML that can be used for input of data. 5
- (b) What is the use of JSP directives ? Explain the page and include directives of JSP with the help of an example. 5
5. Explain the following terms with the help of a diagram or an example, if required : 10
- (a) Methods of ResultSet object
- (b) Hidden fields in the context of session management
- (c) GET method
- (d) Events in the context of web programming
- (e) Uses of < div > tag
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