

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

Term-End Examination

December, 2016

04605

BCS-053 : WEB PROGRAMMING

Time : 2 hours

Maximum Marks : 50

(Weightage 75%)

Note : *Question no. 1 is compulsory. It carries 20 marks.
Attempt any **three** questions from the rest.*

1. (a) What is Web 2.0 ? How is it different from Web 1.0 ? Explain any one Web 2.0 technology in brief. 4
- (b) What is an event ? Explain with an example "how HTML DOM allows to assign events to HTML elements using JavaScript". 4
- (c) Explain MVC architecture with the help of a diagram. 4

- (d) What is WML ? Explain any two WML elements that can be used for data input. 4
- (e) Explain how errors are handled at page level in jsp programming, with the help of a program fragment. 4
2. (a) Design a web page using HTML and JavaScript containing a paragraph about computers. The text colour of this paragraph should change on click of the mouse on that paragraph. 5
- (b) Create an XML document that stores the title, author_name, year_of_publication and price of a book. Create this information for *three books*. Create the DTD that validates the XML document created for the books. 5
3. (a) Explain the following in the context of jsp, with an example : 4
- (i) include directive
- (ii) taglib directive
- (b) Assume that on execution of a SQL web query about a student, 5 records (of the same student) are returned in the result set having the following fields :
- student_id
course_code
marks_out_of_100
- Write the appropriate jsp commands to display these records and the total marks of the student. 6

4. (a) Write a jsp program fragment that sets up a session on receiving username and password. In case the username and password match "IGNOU" and "TEST" respectively, the user is redirected to a page named result.jsp. 5
- (b) What is AJAX ? How is it different from JavaScript ? Name any two web browsers that support AJAX. 5
5. Explain any *four* of the following in context of web programming, with the help of an example/diagram. 10
- (a) Embedded style sheets
 - (b) Deployment descriptor and web.xml
 - (c) XML namespace
 - (d) GET method
 - (e) Use of < div > tag
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