BACHELOR OF COMPUTER
APPLICATIONS (BCA) (Revised)
Term-End Examination
June, 2019

BCS-053 : WEB PROGRAMMING

Time : 2 Hours   *Maximum Marks : 50*

(Weightage 75%)

Note : Question No. 1 is compulsory and carries 20
marks. Answer any three questions from the
rest.

1. (a)   Consider the following HTML form :

Explain the FORM elements that will be
required to make the form as above.   4

(b) What are the uses of JavaScript in Web Programming ? Write and explain Java-Scriptcode that changes the background colour of a web page to "Red" if a button is clicked.   4

(c) How is WML different than HTML ? Write WML script that displays your enrolment number and name in the centre of the screen.   4

(d) A student fee table contains information about student enrolment number and amount of fee paid by a student. A student can pay fee only once. Assuming that a connection has already been created, write JSP code that accesses data from the database for the enrolment number "1701" and displays this data. Make suitable assumptions, if any.   4

(e) What is the purpose of action elements in JSP ? Explain the uses of < jsp : include > with the help of an example. Also differentiate between static and dynamic include in JSP.   4

2. (a) List any *four* technologies that can be categorised as Web 2.0 technologies. Explain the features of Rich Internet Applications. 3

   (b) What is an external style sheet ? How is it linked to a HTML document ? Explain the concept of box model in text style specification. 4

   (c) Explain the uses of XML CSS and XML XSLT. 3

3. (a) What is the purpose of class selector in CSS ? Explain with the help of an example.

   3

   (b) Explain the method getElementBy Id( ) in JavaScript with the help of an example. 3

   (c) Define the following terms : 4

   (i) WML Tasks

   (ii) XML Schemas

   (iii) WAP Protocol Stack

   (iv) HTML DOM

4. (a) Explain how a JSP page is processed with the help of a diagram. 4

(b) Explain with the help of an example code how hidden fields can be used in session management.   3

(c) Explain the JSP compilation time error and JSP request time errors.   3

5, Explain any *four* of the following with the help of an example/diagram, if needed :   10

(a) Web container

(b) Request and Response in the context of HTTP

(c) Scriptlets

(d) DriverManager Class

(e) Controller in the context of MVC architecture

(f) < jsp : param > tag