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BCS-053

**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 :

Registration Form	
Name	: <input type="text"/>
E-mail	: <input type="text"/>
Gender	: <input type="text" value="Male"/> <input checked="" type="checkbox"/>
Description	: <input type="text"/>
<input type="button" value="SUBMIT"/>	

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

(A-4) P. T. O.

- (b) What are the uses of JavaScript in Web Programming ? Write and explain JavaScript code 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 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 getElementById() 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