No. of Printed Pages: 4

BCS-053

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)

01643

Term-End Examination

December, 2018

BCS-053: WEB PROGRAMMING

Time: 2 hours

Maximum Marks: 50

(Weightage: 75%)

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

1. (a) What are the uses of Cascading Style
Sheets (CSS) in the context of Web
Programming? How can a style sheet be
used with HTML document? Also explain
the concept of Class selector and ID
selector in the context of CSS.

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(b) Represent the following information of books using XML document. You may design your own tags. Also write the DTD that validates this XML document.

Book Title	Programming Fundamentals	Web Programming XYZ
Publisher	ABC	
ISBN	2016-12345	2015-14897
First Author	Ravi Sethi	A. Tanenbaum

(c) What is the need of HTML DOM? Consider the following HTML document:

<html>

<head> Test </head>

<body>

Welcome to

Examination

</body>

</html>

Write JavaScript code in this HTML document that replaces the "Welcome to Examination" to "Welcome to JavaScript" when this HTML document is displayed in web browser. Make suitable assumptions, if any.

BCS-0	53 3 P.T.C) .
	(iv) <set var=""></set>	
	(iii) 	
	(ii) 	
	(i) <pre></pre>	•
(b		4
3. (a	What is WAP? Why is it needed?	3
(с	Explain the use of AJAX.	2
(b		3
	(ii) Tags used to create a table in an HTML page.	
	(i) SELECT element in the context of forms.	
	with the help of an example :	5
2. (a	a) Explain the use of the following in HTML	
(e	What is a "Safe Method" in the context of HTTP? Is GET a safe method? Justify your answer. Explain the GET method with the help of an example.	4
	to set the life of this cookie to 10 minutes.	4
	the command to create a new cookie having a name testcookie. Also write the command	
(d		

	(c)	What is a web service? Explain with the help of an example.	3
4.	(a)	Explain the role of each tier in three-tier architecture of web application.	3
	(b)	Differentiate between the following:	4
		(i) Static web page versus Dynamic web page	
		(ii) Model versus View in the context of MVC architecture	
	(c)	Write a scriptlet using JSP that adds numbers from 1 to 10 and prints this result.	3
5.	Expl	ain any <i>four</i> of the following with the help of	
	an ex	Example or a diagram, if needed: $4 \times 2 \frac{1}{2} =$	10
	(a)	DriverManager class in JSP	
	(b)	Loading a JDBC database driver	
	(c)	Processing the result obtained from database access, while using JSP	
	(d)	Session Management	
	(e)	Include Directive	
	(f)	Exception handling using JSP	