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BICS-023

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00683

June, 2018

BICS-023: WEB TECHNOLOGY

Time: 3 hours Maximum Marks: 70

Note: Attempt any **seven** questions. All questions carry equal marks.

- 1. (a) What is a web application? List at least four web applications. How is a web application different from a web service?

 Give one example of web service.
 - (b) Explain the process of web application development.
- 2. (a) What are frames in the context of HTML?

 Explain with the help of an example.

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 - (b) Explain the uses of <div> and tags with the help of an example. What is CSS? How can CSS be used in making a flexible website? Explain with the help of a simple example.

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HTML following Explain the 3. elements/tags/concepts with the help of an example: 10 <textarea> element (a) <select> element (b) Anchor element (c) (d) <thead> and <tfoot> tags Heading elements (e) What are the major uses of JavaScript in (a) context of Web Application development? What is an event? How can JavaScript be used to handle event? Explain with the help of an example. 6 Show HTML DOM node tree for the (b) following HTML document: 4 <html> <head> <title> BICS-EXAM </title> </head> <body> <div> Programme Courses </div> </body> </html>

ə.	(a)	though you have Java Classes? Explain various properties of Java Beans.	4
	(b)	Define the following terms in the context of EJB:	6
		(i) EJB container	
		(ii) EJB server	
		(iii) Entity bean	
		(iv) EJB home object	
6.	(a)	List and explain the role of life cycle methods of a servlet.	5
	(b)	Differentiate between GET and POST methods in the context of HTTP.	5
7.	(a)	Explain with the help of an example how Java standard exception mechanism can be used to handle error in a JSP page.	5
	(b)	What is a Session Object? Why is it needed? Explain it with the help of an example.	5
8.	(a)	Write a script using JSP which adds the numbers 1 to 10 using for loop. You must use scripting elements of JSP to write this scriptlet.	4

(b)	Explain the use of the following in context of JSP:	6
	(i) <jsp:setproperty></jsp:setproperty>	
	(ii) <jsp:getproperty></jsp:getproperty>	
	(iii) <jsp:include></jsp:include>	
Expla	ain the purpose of the following in context of C:	:0
(i)	DriverManager class	•
(ii)	preparedStatement() method	
(iii)	executeUpdate() method	
(iv)		
(v)	Creating a connection	
Expla	ain any <i>four</i> of the following giving an	
	pple/diagram, if needed: $4 \times 2\frac{1}{2} = 1$	0
(a)	Types of JDBC Drivers	
(b)	Page Directive of JSP	
(c)	External CSS	
(d)	TCP/IP Protocol	
(e)	XML Document Structure	
(f)	AJAX	

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