BCS13

Roll No.						

B. Tech. (SEM I) ODD SEMESTER MAJOR EXAMINATION 2015 - 2016

INTERNET AND JAVA PROGRAMMING

	e: 3 H : Ansv	rs. Max. Marks: 4 ver all questions.	:0
Q.1		mpt any Three parts of the following. Q. 1(a) is compulsory. Explain the purpose of the following: (i) XML (ii) HTML (iii) DNS (iv) ISP	4
	(b).	What is an Internet? What are web addresses? Explain the general syntax of a web	3
	(c).	address. What are the different hardware and software requirement for video conferencing. Explain each in brief.	3
	(d)	Compare and contrast different technologies available for Internet access.	3
Q.2		mpt any Three parts of the following. Q. 2(a) is compulsory. What is default constructor? Write a Java program which computes volume of a given box using constructors.	4
	(b).	Differentiate between process based and thread based multitasking. Give the two ways by which a thread can be created using Java. Write a short java program to demonstrate the creation of a new thread by extending the thread class.	3
	(c).	What are different exception classes in Java? Explain throw, throws and finally keywords used in Java.	3
	(d)	What is an interface in Java? Why multiple inheritance is not directly supported by Java? Write a Java program which implements multiple inheritances using an interface.	3
Q.3	Atte (a).	i. What are the advantages of using JDBC with Java?ii. What are the different types of statements available in JDBC? Where do we use these statements?	4
	(b).	Write short notes on the following by giving their proper syntax: (i) Scroll Panes (ii) Toggle button (iii) Combo box	3
	(c).	What are different Java AWT components? Write an event driven applet program with buttons labeled "Yes", "No", and "Undecided". Each time one is pressed, a message is displayed that reports which button has been pressed	3

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Q.4 Attempt any Three parts of the following. Q. 4(a) is compulsory.

(a). Differentiate between an applet and application in Java. Also, write an applet program 4 to display the following output:

1	2	3	4	5	
6	7	8	9	10	
11	12	13	14	15	
16	17	18	19	20	
21	22	23	24		

- (b). How a Servlet is different from CGI program? List and explain with proper syntax about four classes available in the package javax.servlet to build a Servlet program.
- (c). What is a Java Bean? List and explain the various classes available in java.beans package.
- (d) Explain Introspection in context of Java Bean by writing a suitable piece of Java code.