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P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belgaum) Seventh Semester, B.E Computer Science and Engineering Semester End Examination; Dec - 2016/Jan - 2017 Java and J2EE Time: 3 hrs Max. Marks: 100			
Not	e: Answer FIVE full questions, selecting ONE full question from each unit.		
	UNIT - I		
1 a.	Define JDK. What are the different tools available in JDK? With neat labeled diagram explain		
	how they interact with each other?		
b.	Explain the characteristics of Java.		
c.	Explain the method overloading and method overriding with suitable example.		
2 a.	With example, explain the labeled break and labeled continue statements.		
b.	Illustrate the use of following keywords with examples for each;		
	(i) super (ii) final.		
c.	Write a Java program to create a try block, that is to generate 3-different types of exceptions		
	and then incorporate necessary catch blocks to catch and handle exceptions.		
	UNIT - II		
a.	Describe the role of synchronization in threads. Demonstrate the program using synchronized		
	methods.		
b.	Define delegation event model. Describe the roles of sources, listeners and events in event handling mechanism.		
c.	Write a Java program to show the status of key board key (excluding special keys) in the		
	status window and which echoes keystrokes to the applet window.		
la.	Explain the lifecycle of applets.		
b.	With syntax expain HTML applet tag.		
c.	Write a HTML document to pass 3-numerical values to a applet and also write an applet to		
	receive those 3 values and display the largest among them.		
	UNIT - III		
a.	Define swing. Discuss the features of string. List the components of the swing. Write a		
	seeking application program to display a window.		
h	With syntax explain the following :		
b.			
D.	i) JScollpane (ii) JComboBox (iii) JTabbedpane.		

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b.	Write a program to,			
	(i) To read the Resultset (ii) To delete the row in the Resultset.	10		
UNIT - IV				
7 a.	Define servlet. Explain the lifecycle of the servlet.	6		
b.	List and write the description of core classes provided in Javax.Servlet package.	3		
c.	List out the differences between CGI and servlet.	4		
d.	Define session. Write Java code to illustrate how session tracking is handled in Java with servlets?	7		
8 a.	Define cookie. Write a JSP to read cookies.	6		
b.	Describe the different types of JSP tags with example.	6		
c.	Write an XHTML document that collects a number from client and calls a JSP to display the	8		
	largest digit of given number on screen.			
UNIT - V				
9 a.	Using Java mail API, Write programs to read an e-mail and to delete an e-mail.	10		
b.	Define RMI. Write server side and client side programs to simulate a RMI.	10		
10 a.	Explain the EJB interface and environment with the help of a block diagram.	10		
b.	Define Entity Java Bean. With skeleton explain an Entity Java Bean.	10		

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