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Ą	P.E.S. College of Engineering, Mandya - 571 401
Ŕ	(An Autonomous Institution affiliated to VTU, Belgaum)
	Seventh Semester, B. E Computer Science and Engineering Semester End Examination; Dec 2014
	Java and J2EE
_	me: 3 hrs Max. Marks: 100
NOL	te: Answer any FIVE full questions, selecting at least TWO full questions from each part. PART - A
l.a. I	Differentiate between Java and C++.
b. I	Discuss characteristic features of Java.
c. I	Explain the concept of inner classes in Java with an example.
2 a. I	Explain with example, exception handling in Java.
b. I	Discuss the concept of inter-thread communication Java with an illustration.
c. I	Explain the following with an illustration:
i	i) interface ii) package iii) super iv) final.
3 a. I	Explain the procedure of passing parameters to an applet.
b. I	Explain delegation event model.
c. V	Write a program in Java to demonstrate virtual key codes for handling keyboard events.
4 a. V	What are the key features of swing components?
b. V	Write a Java Program using swings to design simple calculator with add, subtract, multiply
8	and divide buttons.
c. I	Discuss the usage of J scroll pane and J tabbed pane components in Java.
	PART - B
	Discuss the process of JDBC with an illustration using student database show the fields assumed.
b. I	List the methods used to access the metadata of database.
c. I	Explain how to delete a row in the result set with an example.
5 a. I	Explain basic steps involved for building and testing simple servlets.
	Develop a servlet to change the background color of a page based on color selected by the
	user. Discuss the concept of RMI in Java.
	Write a JSP script to display grades using switch case statement.
	Write a note on java mail API.
	With a neat diagram explain the relationships in EJB environment.
	Explain session and entity Java bean.

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