

--	--	--	--	--	--	--	--	--	--

**Seventh Semester B.E. Degree Examination, Dec.2015/Jan.2016**

**Java and J2EE**

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting at least TWO questions from each part.**

**PART – A**

- 1 a. List and explain the java buzzwords. (08 Marks)  
 b. Explain with example  
 i) >>> ii) short circuit logical operator iii) for each. (06 Marks)  
 c. Explain different access specifiers in java with examples. (06 Marks)
- 2 a. What is meant by instance variable hiding? How to overcome it? (04 Marks)  
 b. What is exception? Explain the different exception handling mechanisms with an example. (08 Marks)  
 c. What is an applet? Write an applet program to display the message “WELCOME TO VTU BELGAUM”. Set the background color to green and foreground to red. (08 Marks)
- 3 a. What is thread? Explain two ways of creating thread. (08 Marks)  
 b. What is synchronization? Explain the producer consumer problem with a program. (08 Marks)  
 c. Explain KeyEvent and MouseEvent class. (04 Marks)
- 4 a. Create swing applet that has two buttons named beta and gamma. When either of the buttons pressed it should display “beta was pressed” and “gamma was pressed” respectively. (06 Marks)  
 b. Explain different types of swing buttons with syntax. (08 Marks)  
 c. Write a program to create table with headings “ fname, lname, age” and insert at least 5 records. (06 Marks)

**PART – B**

- 5 a. Describe the various steps of JDBC process with suitable exception handling blocks. (10 Marks)  
 b. Explain the different types of statement object, give example for each. (10 Marks)
- 6 a. Explain the different stages in the life cycle of servlet. (06 Marks)  
 b. Write a short note on HttpRequest and HttpResponse. (06 Marks)  
 c. What is cookie? List out the methods defined by cookie. Write a program to add a cookie. (08 Marks)
- 7 a. What is JSP? Explain different types of JSP tags by taking suitable examples. (10 Marks)  
 b. What is RMI? Describe with code snippet RMI at client and server side. (10 Marks)
- 8 a. What is deployment descriptor? List the deployment descriptor for EJB2.0. (06 Marks)  
 b. Explain i) JAR File ii) Stateless bean versus statefull bean. (06 Marks)  
 c. Explain with a skeleton entity java bean. (08 Marks)

\* \* \* \* \*