USN



R. V. COLLEGE OF ENGINEERING

Autonomous Institution affiliated to VTU
V Semester B. E. Fast Track Examinations July-19
Computer Science and Engineering
JAVA AND JEE (ELECTIVE)

Time: 03 Hours Maximum Marks: 100

Instructions to candidates:

- 1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.
- 2. Answer FIVE full questions from Part B.

PART-A

```
1
     1.1
            What is the output of the program?
            class Base
            {
                public void show()
                   System.out.print("Base:: show() called");
            class derived extends Base
                public void show()
                    System.out.print("Derived:: show() called");
            class main
                 public static void main(string [ ] args)
                     Base b = new derived();
                     b.show():
                                                                                      02
            Write the Java code to display the current date and time.
     1.2
                                                                                      02
     1.3
            What
                     is
                           difference
                                         between
                                                     ClassNotFoundException
                                                                                      02
            NoClassDEfFoundError.
     1.4
            Write the Java method to create and start the thread using Runnable
                                                                                      02
     1.5
            Mention four types of JDBC Drivers.
                                                                                      02
            Write the Java method to add the elements at any specific index using
     1.6
            Arraylist collection framework.
                                                                                      02
     1.7
            Mention any two differences between TYPE_FORWARD_ONLY
            TYPE_SCROLL_INSENSITIVE.
                                                                                      02
     1.8
            Write the syntax how to declare the multi-dimensional array in Java
                                                                                      02
            Native Interface.
     1.9
            Mention the four packages of servlet available in Java.
                                                                                      02
            Name the tags of the directive elements available as per ISP
     1.10
            specifications.
                                                                                      02
```

2	a	Explain packages and multiple inheritances in Java with sample code snippets.	08
	b	Write a Java program to convert binary number to octal number without using <i>Parse Int</i> .	08
		OR	00
3	a 5	Explain the various levels of access protection with code snippets.	08
	b	Write a Java program to compare two arrays and print the array in a sorted manner.	08
4	a b	With help of code snippets, explain exception handling mechanism.	08
	D	Describe the complete life cycle of a thread. With a sample code, explain thread priority.	08
		OR	
5	а	Write a Java program to print a stack of exception.	08
	b	Write a Java program to implement Queue using threads.	08
6	a	With help of code snippets, explain the following collection framework: i) Vector	
		ii) Stack	
		iii) Enumeration	
	b	iv) Set. Describe the steps of <i>JDBC</i> process with suitable exception handling	08
	D	blocks.	08
		OR	
7	а	Write a Java program to get the lowest and highest value stored in a tree	
		using TreeSet collection framework.	08
	b	With help of code snippets, explain how to set scroll option to ResultSet.	08
8	a	With a neat diagram, explain MVC architecture.	
	b	Will a front anagram, oripiani fiv o architecture.	08
	D	Create a simple web application with two JSP page:	08
	Б	Create a simple web application with two <i>JSP</i> page: First <i>JSP</i> page- provides an <i>HTML</i> form with two inputfields to enter	08
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	D	Create a simple web application with two <i>JSP</i> page: First <i>JSP</i> page- provides an <i>HTML</i> form with two inputfields to enter phone number and <i>PIN</i> code. Second <i>JSP</i> page-shows the phone number and <i>PIN</i> code that entered by user through the input field.	08
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