

Candidate No: _____

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
Faculty of Technology and Engineering
B.Tech. (CE) Sem - IV Internal Examination II, 2011-12
CE207:Java Programming

Date: 09.04.2012, Monday Time: 09:30 a.m To 10:30 a.m Maximum Marks: 30

Instructions:

1. All questions are compulsory.
2. Indicate clearly, the option you attempt along with its respective question number.
3. Figures to right indicate marks.
4. Rough work is done in the last page of main answer sheet; don't write anything on the question paper.

Q-1 Answer the following questions.

- [A] Can a class declaration include both the abstract and final modifiers? Justify [02]
[B] What is an interface? What are the default modifiers for an interface, interface variable, interface methods? [02]
[C] What is a StringBuffer class and how does it differs from String class? [02]
[D] Which expression will evaluate to true? [02]

Select one correct answer.

- (a) "hello:".equals("hello")
(b) "HELLO:".equals("hello:")
(c) ("hello".concat("there")).equals("hello there")
(d) "Hello There".compareTo("hello there")==0
(e) "Hello there".toLowerCase().equals("hello there")

- [E] What is an exception? Name six conditions that generate an exception. [02]

Q-2 Answer the following questions.

- [A] What is thread? Explain the life cycle of thread. [05]
[B] Which digits, and in what order, will be printed when the following program is run? [03]

```
public class Myclass{ public static void main(String a[]){  
    int k=0;  
    try{  
        int 5/k;  
    } catch(ArithmeticException ae){ System.out.println("1");}  
    catch(RuntimeException re){ System.out.println("2");}  
    finally{System.out.println("3");}  
    System.out.println("4"); } }
```

- [C] What is the difference between abstract class and interface? [02]

OR

- [C] What is the difference between application and applets? [02]

Q-3 Answer the following questions.

- [A] Explain the delegation event model. [05]
[B] Write an application that executes two threads "MyThread1" and "MyThread2". One thread display "A" every 1,000 milliseconds, and the other display "B" every 3,000 milliseconds. [05]

OR

- [A] What is an Adapter class? Explain with example. [05]
[B] Write an applet that contains a check box group with three check boxes labeled "Red", "Green" and "Blue". The selections of the check boxes determine the color of the label. [05]