

(Please write your Exam Roll No.)

Exam Roll No. 05714202011

END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-JUNE-2013

Paper Code: BCA206

Subject: Java Programming (New)

Time : 3 Hours

Maximum Marks :75

Note: Attempt any five questions including Q.no.1 which is compulsory.
Select one question from each unit.

- Q1 Explain any ten of the following briefly:- (2.5×10=25)
- a) What is the role of JRE?
 - b) What is the use of finalize() method?
 - c) What is constructor overloading?
 - d) What is the role of priority in multithreading programming?
 - e) What I/O classes can be used to take input from keyboard in java programs?
 - f) What is user defined exception? How is it created?
 - g) What is an inner class?
 - h) Write any five methods of Scrollbar class.
 - i) What is the use of AWT package?
 - j) Differentiate TCP and UDP.
 - k) What is the use of InetAddress class?
 - l) What is the DriverManager class in JDBC?

UNIT - I

- Q2
- a) Explain interface with example. Write down its advantages. (3)
 - b) What is array? Write syntax to create irregular two dimensional array? Give suitable example. (4)
 - c) Write a java application that takes an integer number as input from command line and computes the sum of digits and number of digits. (5.5)

OR

- Q3
- a) What are the usages of "this" and "super" keywords? (3)
 - b) Explain Abstract class in java? What is the advantage of abstract class? Give suitable example. (6.5)
 - c) Explain instance variable hiding with suitable example. (3)

UNIT - II

- Q4
- a) Explain any 5 string methods with syntax. (5)
 - b) What is Exception? What is the difference between checked and unchecked exception? Write a program to demonstrate exception handling in java with example. (7.5)

OR

- Q5
- a) Explain Thread life cycle. Write a program that have two threads where one thread print table of 5 and other thread print a string 10 times. (6.5)
 - b) What a note of byte stream I/O classes and character stream I/O classes in java. (6)

UNIT - III

- Q6
- a) Write an applet to create moving banner. (7.5)
 - b) What is Swing? Write down the features of swing. Compare applet and swing. (5)

OR

- Q7
- a) Explain applet life cycle. Write an applet to change background color of applet using 3 scrollbars representing colors red, green and blue respectively. (7.5)
 - b) Explain Delegation Event Model in detail. Discuss any five events and listeners to handle those events. (5)

UNIT - IV

- Q8
- a) Write short notes on following:- (6)
 - 1) InetAddress class and its factory methods
 - 2) Servlet Life Cycle
 - b) Write a java application to connect to database table emp (id, name, design) and display all records of table. (6.5)

OR

- Q9
- a) Write a Servlet to display the current date and time. (5)
 - b) What is JDBC? Explain all JDBC drivers and their features. What are the advantages of JDBC? (7.5)