

(Please write your Exam Roll No.)

**END TERM EXAMINATION**

FOURTH SEMESTER [BCA] APRIL-MAY 2019

Paper Code: BCA-206

Subject: Java Programming

Time: 3 Hours

Maximum Marks :75

**Note: Attempt any five questions including Q.no.1 which is compulsory.**

(5x5=25)

- Q1 Answer **any five** the following:-
- Discuss all the three usages of final keyword?
  - How can we pass parameters to an applet?
  - What is the difference between int and Integer?
  - Differentiate between adapter and inner classes.
  - What is DriverManager class in JDBC?
  - What is the use of this and super keyword?
  - What do you mean by Daemon thread? How can you set priority of a thread?
- Q2
- How is method overloading different from method overriding? Explain with the help of suitable code. (6)
  - What is a constructor? Does Java provide default constructor? Does Java provide a default copy constructor? Explain your answer with suitable example. (6.5)
- Q3
- What is inheritance? Explain different types of inheritance in Java with suitable diagram and small segment of codes. (6.5)
  - What are cookies? Are they good or bad? Justify. (6)
- Q4
- Explain the life cycle of a thread. Discuss the process of thread synchronization with the help of appropriate code. (6)
  - Explain any 5 String class methods in detail. (6.5)
- Q5
- Differentiate between checked and unchecked exceptions. Write a program to demonstrate the concept of user defined exceptions. (7.5)
  - Write a program to copy contents of one file to another. (5)
- Q6
- What is delegation event model? Write program to explain keyboard event handling. (7.5)
  - Differentiate between swing and AWT. (5)
- Q7
- Write a program to change background color of applet using three scrollbars representing red, green and blue? (7.5)
  - Write short notes on InetAddress class and its factory methods. (5)
- Q8
- What is JDBC? Explain all JDBC drivers in detail. (7.5)
  - Write a servlet to display current date and time. (5)

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