END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-JUNE-2015

Paper Code: BCA206	Subject: *Java Programming* (Batch: 2011 onwards)

Time : 3 Hours	Maximum Marks :75

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

Q1 Differentiate between the following:- (provide an example to each subsection):- **(5x5=25)**
    (a) Super class and sub class
    (b) Byte and character streams
    (c) Check box and radio button
    (d) Adapter class and inner class
    (e) Java classes and Java Interfaces

Q2 (a) What is a thread? Describe the complete life cycle of thread. Provide an example to create and execute the thread. **(6.5)**
    (b) State any six features of Java in detail. **(6)**

Q3 Explain the following terms with respect to exception handling. Provide an example to demonstrate the following terms:- **(12.5)**
    (a) Try
    (b) Catch
    (c) Throw
    (d) Finally
Write a program which demonstrate how exceptions are implemented.

Q4 (a) What is the difference between an argument and a parameter? Discuss with an example. **(6.5)**
    (b) What is polymorphism? Write a JAVA program that uses polymorphism. **(6)**

Q5 What is Inheritance? With diagrammatic illustration and JAVA Program(s), illustrate types of inheritance. Give self explanatory comments in your program. **(12.5)**

Q6 Define I/O stream. Write a java program to illustrate the use of I/O stream. **(12.5)**

Q7 (a) How do applets differ from application programs? Explain with example? **(4)**
    (b) Distinguish between the following:- **(4)**
      (i) Input stream and Reader classes
      (ii) Output stream and Write classes
    (c) Write a program to accept number from user and convert into binary by using wrapper class methods. **(4.5)**

Q8 Write short notes on **any two** of the following:- **(6.25x2=12.5)**
    (a) Datagrams and TCP/IP based client and server socket
    (b) Swings and comparison with AWT controls
    (c) JDBC Architecture and JDBC Drivers

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