END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY 2017

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.

Q1 Answer the following:-   (5x5=25)
  (a) What is type casting? Illustrate with example what is meant by Automatic type promotion.
  (b) What is delegation event model?
  (c) Discuss the uses of 'throw' and 'throws' keywords.
  (d) Explain the different uses of 'super' keyword.
  (e) Explain the lifecycle of an applet.

Q2 (a) Explain why the main function is declared as "public static void main (String args[])"?   (4)
  (b) List and explain any 8 Java buzzwords.   (4)
  (c) List and explain the OOP principles.   (4.5)

Q3 (a) Explain the concept of abstract classes in Java.   (6)
  (a) What is a Package? Discuss with suitable example the steps involved in creating and using packages.   (6.5)

Q4 (a) What are interfaces? What are their benefits? Give the general form of a class that implements interfaces.   (6)
  (b) Write a Java class called as SavingsAccount with members as AccountNo and Balance. Provide depositAmount() & withdrawAmount() functions. If user tries to withdraw more money than his balance, then throw a User Defined Exception.   (6.5)

Q5 (a) Explain the different ways of creating threads in java with syntax. (6)
  (b) How shared object can be protected from multiple access of threads?
                                                             (6.5)

Q6 (a) Bring out the differences between AWT and Swings using suitable example.   (6)
  (b) Discus various layout managers available in AWT.   (6.5)

Q7 (a) Write a program to illustrate BufferedInputStream and BufferedOutputStream.   (6)
  (b) Compare byte stream class and character stream class. (6.5)

Q8 Write short notes on the following:-
  (a) JDBC architecture   (3)
  (b) Adapter classes   (3)
  (c) Applets and comparison with application program   (3)
  (d) Check box and choice list   (3.5)

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