END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY 2018

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   Explain following in brief:- **(Any five)**-   **(5x5=25)**
(a) Explain in detail the features of Java.
(b) How a multidimensional array is represented in Java? Write the program to create a 2 * 2 array.
(c) Differentiate between Socket and Port.
(d) How multithreading is achieved in Java programs. Discuss its advantages and disadvantages.
(e) Differentiate between Swings and Applets.
(f) How the constructor is overloaded in Java?

Q2   (a) What is a private constructor? How we can create the object of the class having private constructor from other class. **(6)**
(b) Explain the logical operator (& & and | |) with example. **(6.5)**

Q3   (a) What is a constructor? Write the program to pass the values to the base class constructor form the sub class. **(6)**
(b) Explain different access modifiers available in Java. **(6.5)**

Q4   (a) Differentiate between checked and unchecked Exception. Give four examples of each type. **(6)**
(b) Explain the life cycle of Thread. Describe any five methods from thread class. **(6.5)**

Q5   (a) Write the program to count the number of words in file. **(6)**
(b) Why String class objects are considered as immutable. Differentiate between length property and length ( ) method with example. **(6.5)**

Q6   (a) What is layout manager? Explain any three layout managers in Java. Which method is used to set the layout manager? **(6)**
(b) Write a program to print the table of any number inside the applet.**(6.5)**

Q7   (a) Explain the two predefined stream variables in and out. **(6)**
(b) Differentiate between ODBC and JDBC. **(6.5)**

Q8   (a) Explain the InetAddress class. Write the program to find the IP address of any website using the methods of InetAddress class. **(6)**
(b) Explain client server communication using sockets. Discuss the use of Server Socket and Socket Class in Java. **(6.5)**

****