

# 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 from 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)

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