

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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