M.sc.IT – Semester IV

Paper No: 15  Paper Name:  Object Oriented Techniques and JAVA Programming

Paper Code: *45 c*

Time : 2 Hours　　　　　　　　*oct - 2016*　　　　　　　Marks: 70

Q – 1　Answer the following questions
　　　(A) Explain the basic principles of object oriented programming　　　07
　　　(B) Write a short note on primitive data types and reference data type.　　　07
　　　　　　　　　　　　　OR
Q – 1　(A) Explain the uses of this and super keyword with example.　　　07
　　　(B) Differentiate between abstract class and an interface　　　07

Q – 2　Answer the following questions
　　　(A) Write a note on Class and Object.　　　07
　　　(B) Explain Method Overloading with example　　　07
　　　　　　　　　　　　　OR
Q – 2　(A) Explain the use of keywords extends and implements.　　　07
　　　(B) What is inheritance? Explain Inheritance with example.　　　07

Q – 3　Answer the following questions
　　　(A) Explain Thread Lifecycle.　　　07
　　　(B) Explain the access Specifiers available in java.　　　07
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Q – 3　(A) Explain the uses of static variables and methods in java.　　　07
　　　(B) Describe different ways to implement Thread.　　　07

Q – 4　Answer the following questions
　　　(A) Define type conversion. Explain the narrowing and widening conversion for　　　07
　　　numeric types.
　　　(B) Explain try and catch block with example.　　　07
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Q – 4　(A) Explain Applet Lifecycle.　　　07
　　　(B) Write down simple program to demonstrate use of Applet.　　　07

Q – 5　Answer the following questions
　　　(A) Discuss BufferedWriter and the BufferedReader classes of java I/O.　　　07
　　　(B) Write step by step information to read and write data to file.　　　07
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Q – 5　(A) List and Explain functions to read data from file.　　　07
　　　(B) There is a class called employee. Employee has members empid, name,　　07
　　　salary. Write an application for writing the employee records in a .txt file. Then
　　　the application will read the records from the file and display the records.