**Subject: Java Programming**

Time: 3 Hours
Max. Marks: 70

Note: (i) First question is compulsory and answer any four questions from the
remaining six questions. Each question carries 14 Marks.
(ii) Answer to each question must be written at one place only and in the same
order as they occur in the question paper.
(iii) Missing data, if any, may be suitably assumed.

1. a) List out the various data types available in java.

   b) Write about different usage of "super" keyword.

   c) What are the two ways of creating thread?

   d) List out commonly used collection classes and collection interfaces in java.

   e) What is constructor? Give example.

   f) What is an event? What are the sources of events?

   g) List out different JDBC drivers.

2. a) Explain in detail about Java buzzwords (java features).

   b) Explain different types of operators available in java with examples

3. a) What is inheritance? Illustrate the concept of single level inheritance with suitable java code.

   b) Describe the concept of interfaces with examples.

4. a) What is exception? Explain how to use try and catch blocks in exception handling.

   b) Explain with suitable code, LinkedList class for creating linked list.

5. a) What is an applet? Explain the applet life cycle.

   b) Write java code for copying text from one file to another file.

6. a) Write and explain AWT class hierarchy in java.

   b) Explain how delegation event model works?

7. a) What is servlet? Explain servlet life cycle.

   b) Explain JLabel and write java code to implement it.