(3 Hours)   [Total Marks : 100

N.B. (1) Question No. **1** is **compulsory**.
     (2) Solve any **4** questions from the remaining questions.

1. (a) Write a program in Java to take two numbers from command line and add them.   10
    (b) What is inheritance ? Explain the different types of inheritances ?   10

2. (a) Explain the life cycle of Applet.   10
    (b) Write a program in Java to find factorial of a given number.   10

3. (a) What is a package ? Illustrate with programming example.   10
    (b) Write a program in java to illustrate boolean operators..   10

4. (a) Explain the object oriented concept in Java.   10
    (b) How multiple inheritance is implemented in java ? Explain with example.   10

5. (a) Write a program in Java to display the following pattern :   10

            1
            1   2
            1   2   3
            1   2 . 3   4

    (b) What is exception handling in Java ? How it is implemented ?   10

6. (a) Write a program in Java to create multiple threads.   10
    (b) Write a program in java to demonstrate parameter passing to applet.   10

7. (a) Write a program in java to check whether given string is palindrome or not.   10
    (b) Explain the life cycle of a thread.   10