



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)  
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

M.SC.IT 2<sup>ND</sup> YEAR 4<sup>TH</sup> SEMESTER ASSIGNMENT

*Last Date of Submission: 15 July 2015*

**Course Title:** Programming in Java

**Course Code:** M.Sc.IT-13

**Year:** 2014-15

**Maximum Marks:** 40 Marks

**Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.**

1. Why Java is called a platform independent language?
2. What is a Java applet? What is its function?
3. What are the different types of constants in Java? Explain with examples.
4. What are objects? How are they created?
5. Write a program to add two matrices.
6. What is a package? What is its function ?
7. What is the difference between Exception and Error in java?
8. What is a layout manager?

**Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.**

1. What do you mean by looping? What are the different types of loop in the Java programming language? Briefly explain with their syntax.
2. Explain the various I/O Streams.
3. What are the steps involved in establishing a JDBC connection? Explain.
4. What are the Applet's Life Cycle methods? Explain them?