



## UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)

MScIT-12 2<sup>nd</sup> YEAR 4<sup>th</sup> SEMESTER ASSIGNMENT*Last Date of Submission: 15 May,2014*

Course Title: Programming in Java

Course Code: MScIT-13

Year: 2013-14

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. State four features of java.
2. What is a thread? Describe the complete life cycle of thread.
3. Explain the following terms with the help of example.
  - a. try
  - b. catch
4. What is garbage collection in java?
5. How do applets differ from application programs explain with example?
6. Define stream.
7. What is the difference between string class and string buffer class?
8. Write a program in java to check whether the given string is a palindrome or not.

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

1. List and explain various data types in Java.
2. Explain about I/O streams in java.
3. Explain in detail about JDBC architecture.
4. Explain the Exception handling mechanisms in detail.