

**BITS edu campus**  
**Institute of Technology**  
**B.E. Semester 5<sup>th</sup> Class Test**

**Subject: Object Oriented Programming with Java(2150704)**

**Branch: CSE**

[13<sup>th</sup> August, 2016]

[Time: 3:00 pm to 4:30 pm]

Total Marks: 50

**Instructions:**

- ❖ Attempt all the questions.
- ❖ Read the instructions carefully
- ❖ Figures to the right indicate full marks.

- Q. 1.** What is Type Casting? Explain widening and narrowing conversion in java with example. **[05]**
- Q. 2.** Explain following features of java programming language. **[05]**  
1. Distributed 2. Multi-threaded 3. Garbage Collector 4. Secure 5. Portable
- Q. 3.** Explain Source Code, Byte Code, Object Code and Native Code. **[05]**
- Q. 4.** What is the use of static keyword in java? Explain with example. **[05]**
- Q. 5.** Explain Wrapper Classes in java. **[05]**
- Q. 6.** Write a java program which will take ten integer numbers from command-line argument and sort them using insertion sort method. Also write print method to print unsorted and sorted arrays. **[05]**
- Q. 7.** Explain the difference between method overloading and method overriding. Give suitable examples of both. **[05]**
- Q. 8.** Explain the use of final, this and super keywords in java. **[05]**
- Q. 9.** What is the difference between interface and abstract class in java. **[05]**
- Q. 10.** Draw a class diagram of Student Information System. **[05]**

**\*\*ALL THE BEST\*\***