

**B.SC. (I. T.) SEM. - III (2011 COURSE) : WINTER - 2017**  
**SUBJECT: CORE JAVA**

Day: **Saturday**  
Date: **30/12/2017**

**W-2017-0872**

Time: **10.00 AM TO 12.00 NOON**  
Max. Marks: 40

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**N.B.:**

- 1) Attempt any **FIVE** questions.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Assume suitable data if necessary.
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- Q.1** What is meant by Inheritance? List and explain the types of inheritance supported in Java. Explain with neat diagrams. **(08)**
- Q.2** Explain the following Java Keywords, with code snippet examples- **(08)**  
i) static                      ii) implements  
iii) final                      iv) this
- Q.3** What is meant by constructor? Explain the concept and necessity of constructor overloading with code snippet example. **(08)**
- Q.4** Explain abstract class versus interface, with code snippet examples, syntax and usage scenarios. **(08)**
- Q.5** Differentiate between primitive data types and wrapper classes. Describe with Any Two appropriate examples. **(08)**
- Q.6** Discuss the advantages and disadvantages of Java versus C++ programming language, in detail. **(08)**
- Q.7** Write Short Notes on: **(08)**  
i) JVM and JRE  
ii) Basic packages of Java SE and their features.

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