

B.Sc. (I. T.) Sem. - III (2011 Course) : WINTER - 2018

SUBJECT: CORE JAVA

Day: Friday
Date: 30/11/2018

Time: 02.30 pm to 04.30 pm
Max Marks: 40

W-2018-1103

N.B.:

- 1) Attempt **ANY FIVE** Full Questions.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Write programs or code snippets, **WHEREVER** necessary, with accurate syntax and proper comments.
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- Q.1** What is meant by constructor? Explain the concept and necessity of constructor overloading, with code snippet example. **(08)**
- Q.2** Explain the concept and necessity of Exception handling in Java programs. Differentiate between error and Exception, using appropriate example. **(08)**
- Q.3** Clearly explain the following Java keywords, with an example for each: **(08)**
- a) static
 - b) final
 - c) abstract
 - d) this
- Q.4** List the various primitive data types available in Java language and their value assigning range or features. Also describe the non-primitive (referenced) data types. Give an example for non-primitive data type and its relation with primitive data type. **(08)**
- Q.5** Explain the concept of Java library. Differentiate between Java SE, Java EE and Java ME. **(08)**
- Q.6** Explain Any Four of the various control statements in Java, with code snippet examples. **(08)**
- Q.7** Write Short Notes on the following: **(08)**
- a) JVM and Bytecode
 - b) JRE and basic Java packages
- Q.8** Write a Java program for ticket reservation system using multiple classes and methods. The program must demonstrate the usage of abstract class and / or interface. Also show its indicative output. **(08)**

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