

**T.Y. B. SC. (Computer Science) SEM –V (CBCS - 2016 COURSE) :**  
**SUMMER - 2019**  
**SUBJECT : CORE JAVA**

**Day** : Saturday  
**Date** : 27/04/2019

**S-2019-1108**

**Time** : 11.00 AM TO 02.00 PM  
**Max. Marks** : 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
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**Q.1** Answer **ANY TWO** of the following. (12)

- a) Describe various features of JAVA.
- b) Write a JAVA program to define class Rectangle having data members length and breadth. Accept and display data using class and object.
- c) Explain parameterized constructor with an example.

**Q.2** Answer **ANY TWO** of the following. (12)

- a) What is an exception? How it is handled? Explain with suitable example.
- b) Write a java program to sort the numbers using an array.
- c) Describe system defined packages with their purposes.

**Q.3** Answer **ANY TWO** of the following. (12)

- a) Explain public, private and protected access modifiers with suitable example.
- b) Write a JAVA program to find area of circle and square using method overloading.
- c) Describe various methods of StringBuffer class with an example.

**Q.4** Answer **ANY THREE** of the following. (12)

- a) Explain single inheritance with proper example.
- b) Describe various data types in JAVA.
- c) Write a JAVA program to check whether given number is Armstrong or not.
- d) Explain Jdk Environment with different tools.

**Q.5** Answer **ANY FOUR** of the following. (12)

- a) Differentiate between C++ and JAVA.
- b) Explain method overriding with an example.
- c) Write various types of errors.
- d) What is interface? Write the declaration and implementation of an interface.
- e) Explain Java Virtual Machine.
- f) Write JAVA program to display grade of student depending on percentage.

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