

**T.Y.B.SC. (Computer Science) SEM –V (2014 COURSE) : WINTER -  
2018**

**SUBJECT: CORE JAVA**

Day : Monday  
Date : 15/10/2018

**W-2018-0968**

Time: 12.00 NOON TO 02.00 PM  
Max. Marks: 40

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**N.B.:**

- 1) All questions are **COMPULSORY**
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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**Q.1** Answer any **TWO** of the following: **(10)**

- a) Describe features of object oriented programming language.
- b) Write Java program to implement Hierarchical inheritance.
- c) Explain types of constructor with example.

**Q.2** Answer any **TWO** of the following: **(10)**

- a) Illustrate user defined package with a example.
- b) Write a Java program to sort following numbers using an array 10, 50, 30, 65, 25, 35, 55, 42.
- c) Explain method overloading with example.

**Q.3** Answer any **TWO** of the following: **(10)**

- a) Explain interface with proper example.
- b) Describe while and for loop with an example.
- c) Explain any five String class methods with example.

**Q.4** Answer any **FIVE** of the following: **(10)**

- a) What are different data types in Java?
- b) Define Exception syntax.
- c) What is an abstract class?
- d) State class and object.
- e) List the types of operators.
- f) What is polymorphism?
- g) Write structure of Java program.

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