Exam. Code 107205 Subject Code: 1804

Bachelor of Computer Application (BCA) 5th Semester JAVA PROGRAMMING LANGUAGE

Paper-IV

Time Allowed—3 Hours] [Maximum Marks Note: — Attempt any five questions

- Java is secure, robust, and platform independent. Explain the features of Java that make it support this statement. 15
- Java has two selection statements if-else-if ladder and the switch statement. Explain the structure of each of them. Give an example to show when it is better to use the switch statement. 10,5
- What is a method in Java? How is it defined and called? Explain the concept of method overloading and overriding with the help of an example. 2,6,7
- Explain the basic building blocks of the object oriented paradigm. How is this paradigm better than the procedural? 10.5

- What is a thread? How is it different from a process? Explain the basic constructs to create threads and use 3,2,10 them to synchronize asynchronous tasks.
- Why are exceptions raised? Explain the Java keywords for catching and handling exceptions. 5,10
- Which package does contain the methods for handling input/output? Explain the procedure to read from console 3,12 characters and strings.
- Define an interface for implementing a stack of integers. Use this stack to have two different implementations - one using a fixed sized stack and another using a flexible stack which can grow in size if needed.

2

15