

- (c) What is thread synchronization ? When do we use it ? 3
- (d) What is the advantages of Multithreading ? 3
- (e) Describe the complete life of a thread. 3
8. (a) What is an applet life cycle ? Explain. 7
- (b) Write a program fragment to create an applet that displays the current time and this time is updated once per second. 8

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Roll No.

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B.C.A. EXAMINATION, May 2017

(Sixth Semester)

(B. Scheme) (Main & Re-appear)

BCA

BCA-304-B

JAVA PROGRAMMING

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Briefly write history of Java ? Also elaborate importance of Java for the Internet. **8**
(b) What is a Constructor ? What are its special properties ? Give suitable examples in support of your answer. **7**
2. (a) What is Method Overloading ? Also write its significance. Give suitable example in support of your answer. **8**
(b) What do you mean by Data Types ? Explain the various built-in primitive data types used in Java. **7**

Unit II

3. (a) What is Inheritance ? Does Java support multiple inheritance ? Give reason in support of your answer. **7**
(b) How can you create your own package in Java ? Also write the advantages of using the packages. **8**

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4. (a) What is an abstract class ? What is the utility of abstract classes ? **7**
(b) Create a subclass of Two D Shape called Circle. Include an area() method that computes the area of the circle and a constructor that uses super to initialize the Two D Shape portion. **8**

Unit III

5. "One interface, multiple methods" is a key tenet of Java. What features in best exemplifies it ? Explain with suitable example. **15**
6. What is the significance of exception handling hierarchy ? Also explain the role of finally and throw statements. **15**

Unit IV

7. (a) What is the difference between suspending and stopping a thread ? **3**
(b) Explain the concept of thread priorities in brief. **3**

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P.T.O.