

Roll No.....

Total No. of Questions : 05

Total No. of Printed Pages : 02

Code No. : B-423(A)

Annual Examination - 2017

BCA - III

BCA-302

PROGRAMMING IN JAVA

Max.Marks : 100

Min. Marks : 40

Time : 3 Hrs.

**Note** : Attempt any two question from each unit. All questions carry equal marks.

**Unit-I**

- Q-1. (a) What is garbage collection ? Explain advantages of garbage collection.  
(b) Explain nested inner class.  
(c) What is wrapper class? Explain it with example.

**Unit-II**

- Q-2. (a) Explain what is the use of Final Keyword.  
(b) Write complete procedure to create packages and import packages.  
(c) Explain Dynamic method dispatch technique.

**Unit-III**

- Q-3. (a) Define multithreaded program.  
(b) What are the two ways for creating a thread?  
(c) Discuss Synchronization with an example.

**P.T.O.**

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**Unit-IV**

- Q-4. (a) Briefly explain the role of following classes in java network programming :
- (i) Socket
  - (ii) Datagram packet
- (b) Explain what are the various types of JDBC.
- (c) Explain server and client socket with example

**Unit-V**

- Q-5. (a) What is layout manager .Explain at least two layout manager briefly
- (b) What are the various classes responsible for creating menus?
- (c) What are the various mouse handling events ?

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