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Exam. Code : 206703 Subject Code: 5198

## M.Sc. Computer Science 3rd Semester

## MCS-304: CONCEPTS OF CORE & ADVANCED JAVA

Time Allowed—3 Hours [Maximum Marks—100

Note: — Attempt any five questions. All questions carry equal marks.

- 1. Write a program to perform the following operations by using Applets:
  - (a) Draw a line, rectangle
  - (b) Draw an oval and fill it.
- Explain break and continue statements in detail with 2. examples. Implement FTP server using Java. Write steps.
- What is inheritance and purpose of using inheritance? What is the use of keyword super in inheritance? Explain with an example.
- What is an interface in Java? Differentiate between 4. interface and abstract classes.
- 5. What is difference between multithreading and multitasking? Explain life cycle of a thread in Java.
- What is web hosting and types of web hosting services? How does HTTP work?

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- Explain three main concepts of Object Oriented Programming.
- (b) Exception handling in Java
- (c) Java Virtual Machine
- (d) Polymorphism.
- Describe the Life Cycle of Thread. Explain with an 8. example how Java performs Thread Synchronization?