

Exam. Code : 206703

Subject Code : 4799

M.Sc. Computer Science 3rd Sem. (Batch 2020-22)

CONCEPT OF CORE AND ADVANCED JAVA

Paper—MCS-304

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt FIVE questions in all, selecting at least ONE question from each Section. The FIFTH question may be attempted from any Section. All questions carry equal marks.

SECTION—A

1. What is Java Development Kit (JDK) and Virtual Machine (JVM) ? Describe with example the role of JVM in java programming language.
2. What are Data types ? Which data types are available in java ? Describe in brief about control structures available in Java programming language.

SECTION—B

3. What is Inheritance ? How is inheritance implemented in java ? State one example to support your answer. Comment on whether one can inherit multiple classes in java.
4. What is interface ? How are interface implemented, describe using one example. Briefly comment on whether interface and Abstract classes are same or different in concepts.

SECTION—C

5. (a) What are thread ? How thread is different from program ?
(b) How threads communicate in java programming environment ? Describe one example to support your example.
6. What is meant by concept file streams ? Explain the input and output file stream. Give one example for each stream to support your answer.

SECTION—D

7. What are Java Applets ? Explain the lifecycle of applet. Support your answer with one example.
8. Explain any two terms in brief with example :
 - (a) Packages in Java
 - (b) Telnet
 - (c) Parameter Passing.