

**Exam. Code : 208604**

**Subject Code: 4762**

**M.Sc. Information Technology 4<sup>th</sup> Semester**

**(Batch 2020-22)**

**ADVANCED JAVA TECHNOLOGY**

**Paper—MIT-401**

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. How does Java handle console input/output ? 20
2. What is a stream ? Which Java package is used for stream-based I/O ? Explain any two classes in the package. 6,2,12

**SECTION—B**

3. Explain the different states in which a thread can exist with the help of a diagram. How is a thread's state accessed ? 14,6

4. How does an applet differ from a console-based application ? Write code to create an applet to show current time. 6,14

#### SECTION—C

5. What is event handling ? Explain the event delegation model. 5,15
6. What is the purpose of Abstract Window Toolkit (AWT) ? Discuss the AWT hierarchy with the help of a diagram. 5,15

#### SECTION—D

7. Explain the life cycle of a servlet. 20
8. How are HTTP requests and responses generated and consumed in Java ? 20