

5. (a) What steps are followed to implement event handling for a GUI component ? Explain using suitable example.
(b) Write a program to add, subtract, multiply and divide two numbers using the concept of event handling.
6. (a) With the help of an example, create a window by subclassing a Frame class.
(b) Explain the use of Font metrics class using an example.
7. (a) Write down the steps for creating a servlet.
(b) Write a servlet to display a table that contains factorial of numbers from 1 to 15.
8. (a) Explain the concept of Cookie using suitable example.
(b) How is session tracking done using Cookies ?

Exam. Code : 208604
Subject Code: 4840

M.Sc. Information Technology 4th Semester
ADVANCED JAVA TECHNOLOGY
Paper : MIT-401

Time Allowed—2 Hours] [Maximum Marks—100

Note :— There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

1. Explain the use of Inputstream class and OutputStream class using suitable example.
2. (a) What is the purpose of File class ? Discuss various constructors used for constructing File objects.
(b) Write a program that stores an array of four Int values 10, 20, 30, 40, a double value 7.5 and a date for current time into a file.
3. (a) Using an example, explain how thread is created using Thread class.
(b) Explain Thread synchronization with the help of suitable example.
4. (a) Write down the steps in creating an Applet. Discuss the various stages in Applet Life cycle.
(b) Write an Applet that draws rectangles of different sizes at different locations.