

MASTER OF COMPUTER APPLICATIONS (CBCS – 2022 COURSE)
M.C.A. Sem – I : WINTER- 2022
SUBJECT : JAVA PROGRAMMING

Day : Saturday

Time : 02:00 PM-05:00 PM

Date : 3/12/2022

W-25934-2022

Max. Marks : **100**

N.B.

- 1) Attempt **ANY FIVE** questions from Section – I. Each question carries 12 marks.
 - 2) Attempt **ANY TWO** questions from Section – II. Each question carries 20 marks.
 - 3) Figures to the **RIGHT** indicate **FULL** marks.
 - 4) Answers to both the sections should be written in **SAME** answer book.
 - 5) Draw a labeled diagram **WHEREVER** necessary.
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SECTION – I

- Q.1** What is thread? Explain thread synchronization. (12)
- Q.2** What is buffered stream? Explain buffered reader and buffered writer class. (12)
- Q.3** What is Type Casting? Explain type casting with example. (12)
- Q.4** What is Function? Explain the need of function in Java. (12)
- Q.5** Explain the use of Abstract and final keyword in Java. (12)
- Q.6** Write short notes on **ANY TWO** of the following : (12)
- a) Tree set
 - b) JVM
 - c) Method overloading

SECTION – II

- Q.7** a) Write a Java Program to demonstrate constructor overloading. (10)
b) Write a Java Program to create and implement a package in Java. (10)
- Q.8** a) Write a Java Program to read content from one file and write to another file. (10)
b) Write a Java Program to sort the elements of 1-D Array. (10)
- Q.9** a) Write a Java Program to demonstrate user defined exception handling. (10)
b) Write a Java Program to find the factorial of a given number. (10)
