

**MASTER OF COMPUTER APPLICATIONS (CBCS - 2020 COURSE)**  
**M.C.A. Sem-I : WINTER : 2021**  
**SUBJECT: JAVA PROGRAMMING**

**Day :** Wednesday  
**Date :** 19-01-2022

**W-22723-2021**

**Time :** 02:00 PM-05:00 PM  
**Max. Marks:** 60

**N.B.:**

- 1) Attempt any **THREE** questions from Section –I and any **TWO** questions from Section–II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SAME** answer book.

**SECTION-I**

- Q.1** Explain the modifiers and its scope in Java. **(10)**
- Q.2** What is Exception handling? Explain user defined exception. **(10)**
- Q.3** What is thread? Explain life cycle of thread. **(10)**
- Q.4** Explain in detail control statements in Java. **(10)**
- Q.5** Write short notes on any **TWO** of the following: **(10)**
- a) Interface
  - b) LinkedHashSet
  - c) JVM

**SECTION-II**

- Q.6** Write a Java program to determine whether two trees are identical. **(15)**
- Q.7** Write a Java program to determine whether two matrices are equal. **(15)**
- Q.8** Write a Java program to find 2<sup>nd</sup> smallest and 2<sup>nd</sup> largest number of an array. **(15)**

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