

**MASTER OF COMPUTER APPLICATIONS (CBCS - 2020 COURSE)**

**M.C.A. Sem-I : : SUMMER - 2022**

**SUBJECT : JAVA PROGRAMMING**

Day : Saturday  
Date : 28-05-2022

**S-22723-2022**

Time : 10:00 AM-01:00 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** How Java is platform independent? Explain. **(10)**
- Q.2** What is user defined package? Explain with example. **(10)**
- Q.3** What is polymorphism? Explain method overloading and method overriding. **(10)**
- Q.4** What is buffered stream? Explain DataInput and DataOutput stream. **(10)**
- Q.5** Write short notes on any **TWO** of the following: **(10)**
- a) LinkedHashSet
  - b) Thread synchronization
  - c) Garbage collection

**SECTION-II**

- Q.6** Write a Java Program to find smallest element of tree. **(15)**
- Q.7** Write a Java program to divide a string in 'N' equal parts. **(15)**
- Q.8** Write a Java program to demonstrate user defined exception handling. **(15)**

\* \* \* \*