

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-IV : WINTER : 2021
SUBJECT: JAVA PROGRAMMING

Day : Thursday
Date : 13-01-2022

W-18779-2021

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

N. B. :

- 1) **Q. NO. 4** from Section – I is **COMPULSORY**.
- 2) Attempt **ANY TWO** questions from **Q. 1, 2, 3** in Section – I.
- 3) Attempt **ANY TWO** questions from **Q. 5, 6, 7** in Section – II.
- 4) Figures to the right indicate **FULL** marks.
- 5) Answers to both the sections should be written in **SAME** answer book.
- 6) Draw neat and labelled diagrams **WHEREVER** necessary.

SECTION – I

- Q. 1** a) What is an array? Explain one dimensional array with example. (06)
- b) Enlist branching statements in Java. Explain switch case in detail. (06)
- Q. 2** What is Constructor? Explain its special properties and types in detail. (12)
- Q. 3** a) Explain exception handling in java with example. (06)
- b) Explain different stages in the life cycle of an applet. (06)
- Q. 4** Write short notes on **ANY THREE** of the following : (12)
- a) final Keyword
 - b) AWT Components
 - c) Buffered Streams
 - d) Pass by Value
 - e) Thread Synchronization

SECTION – II

- Q. 5** What is Inheritance? Explain Is--a relationship and its types in detail. (12)
- Q. 6** a) Describe the complete life cycle of a thread. (06)
- b) Write a Java Program to check whether the given number is prime or not. (06)
- Q. 7** Design a class to represent a bank account. Create appropriate data members and write methods to perform following tasks: (12)
- a) Assign initial value to all data members using constructor.
 - b) Deposit an amount.
 - c) Withdraw an amount after checking balance.
 - d) Display the name and balance

* * * * *