

BACHELOR OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
B.C.A. SEM - IV : WINTER :- 2021
SUBJECT: JAVA PROGRAMMING

Day : Thursday
Date 17-02-2022

W-21879-2021

Time : 10:00 AM-01:00 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 two dimensional array in detail. **(06)**
 b) Describe data types in Java. **(06)**
- Q. 2** What is a thread? Explain life cycle of a thread in detail. **(12)**
- Q. 3** a) Discuss the different levels of access modifiers available in java. **(06)**
 b) Explain exception handling in java with example. **(06)**
- Q. 4** Write short notes on **ANY THREE** of the following : **(12)**
 a) Packages
 b) Abstract class
 c) AWT Components
 d) Streams in Java
 e) Method Overloading

SECTION – II

- Q. 5** a) What is method overriding? Explain it with appropriate example. **(06)**
 b) What is major difference between an interface and a class? **(06)**
- Q. 6** a) What is applet? Illustrate applet life cycle. **(06)**
 b) Write a java program to check whether given three digit number is armstrong or not. **(06)**
- Q. 7** Write a class to represent Bank Account with account details, such as account holder name, balance, account number and write methods to deposit amount, withdraw amount and get balance. Also write main method to test it. **(12)**

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