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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-IV : WINTER- 2022
SUBJECT : JAVA PROGRAMMING

Day : Friday

Time : 02:00 PM-05:00 PM

Date : 2/12/2022

W-18779-2022

Max. Marks : 60

N.B :

- 1) **Q. 4** from **Section I** is **COMPULSORY**.
 - 2) Solve **ANY TWO** from **Q.1** to **Q.3** in **Section – I**.
 - 3) Solve **ANY TWO** from **Q.5** to **Q.7** in **Section – II**.
 - 4) All questions **CARRY EQUAL** marks.
 - 5) Answers to both sections should be written in **SAME** answer book.
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SECTION - I

- Q.1** List and describe features of java. (12)
- Q.2** What do you know about constructor? Explain its types with example. (12)
- Q.3** What is applet? Illustrate applet life cycle in detail. (12)
- Q.4** Write short note on **ANY THREE** of the following: (12)
- a) Garbage collection in java
 - b) Class and object
 - c) Packages
 - d) Types of streams
 - e) Thread synchronization

SECTION - II

- Q.5** What is inheritance? Explain multilevel inheritance with suitable example. (12)
- Q.6** a) Write a java program to calculate sum of squares of first 10 numbers. (06)
- b) Write a java program to print whether any three digit number is Armstrong or not. (06)
- Q.7** a) Explain the following AWT control: (06)
- i) Scroll Bar ii) Button iii) Textfield
- b) Design a class employee with appropriate fields and methods to print employee personal details. (06)

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