

B.C.A. SEM-IV (2014 Course) CBCS : SUMMER - 2019

SUBJECT : JAVA PROGRAMMING

Day : Thursday
Date : 02/05/2019

S-2019-2073

Time : 10.00 AM TO 01.00 PM
Max. Marks : 100

N. B. :

- 1) Attempt **Any FOUR** 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 the **SAME** answer book.
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SECTION - I

- Q.1** What do you know about Java Virtual Machine (JVM)? Explain its working. **(15)**
- Q.2** What is applet? Explain life cycle of it with example. **(15)**
- Q.3** Briefly describe arithmetic and logical operators in Java. **(15)**
- Q.4** What is need of loops? Explain various loops in Java with suitable example. **(15)**
- Q.5** Explain method overloading and overriding with example. **(15)**
- Q.6** What is constructor? Describe its use and its types with example. **(15)**
- Q.7** Write short notes on **ANY THREE** of the following : **(15)**
- a) Final class
 - b) Multiple catch blocks
 - c) Package
 - d) Garbage collection

SECTION - II

- Q.8** Write a Java program to read 10 integer numbers divisible by 5 and print sum of them. Also write a code to throw and catch exception if an entered number is not divisible by five. Make Sure that all 10 numbers are accepted even if exception is fired. **(20)**
- Q.9** Develop an interface Shape with method area() returning double. Implement it in classes Rectangle and Circle. Also write a code to use these classes. **(20)**
- Q.10** a) Write a Java program to read a number and print all its divisors. **(10)**
- b) Write a Java program to read a single digit number using command line and print its word equivalent. **(10)**
e.g. Input: 7
output: Seven

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