I.M.C.A. SEM–IV (2014 Course) CBCS : SUMMER - 2019

SUBJECT : JAVA PROGRAMMING

Day : Thursday
Date : 02/05/2019

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

S-2019-2127

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.

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 operates 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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