

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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PGDCA 2nd Semester

1059

OBJECT ORIENTED CONCEPTS USING JAVA

Paper—PGD-2101

Time Allowed : Three Hours]

[Maximum Marks : 60

Note :— Attempt **five** questions in all by selecting **one** question from each Section. Entire Question Number **IX** is compulsory.

SECTION—A

- I. (a) Describe JVM and JDK.
- (b) Explain any two decision control constructs available in Java with their syntax and examples. 6,6
- II. (a) Explain the Arithmetic, Relational and Logical operators in Java. Also give their order of precedence.
- (b) What is Method Overloading ? How is it achieved in Java ? Give examples. 6,6

SECTION—B

- III. (a) What do you mean by Final variables, methods and classes ? Explain with examples.
- (b) What are Abstract Methods and Classes ? Why are they used ? 6,6

IV. (a) What do you mean by Inheritance ? Illustrate its various types.

(b) What is Method Overriding ? Explain with examples.

6,6

SECTION—C

V. (a) What is a Package ? How do you add a class or interface to a Package ? Write steps.

(b) How can an Interface be used to support Multiple Inheritance ? Give examples.

6,6

VI. What is a Thread in Java ? Exemplify various methods of creating threads. How are threads started, run and stopped ? Give examples.

12

SECTION—D

VII. What is an Exception ? Give details of built-in Exceptions. How these Exception are managed ?

12

VIII. What is an Applet ? How does an applet differ from an application program ? Write Java code to display a message "Welcome to Applets" using both Application and Applet concepts.

12

(Entire question is compulsory)

IX. Write short answers :

(i) Is Java a pure Object Oriented Language ? Justify your answer.

(ii) What is Bytecode ?

(iii) Name numeric data types available in Java.

(iv) What is role of keyword 'static' ?

(v) How are Strings created in Java ?

(vi) How are priorities of a thread set ?

6×2=12