

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

4	5	8	1	0
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Exam. Code :

1	2	2	0
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PGDCA 2nd Semester

(2056)

OBJECT ORIENTED CONCEPTS USING JAVA

Paper : PGD-2101

Time Allowed : Three Hours]

[Maximum Marks : 60

Note :— Attempt **FIVE** Questions in all, including Q. No.9 in Section-E, which is compulsory and taking **ONE** each from Section-A to Section-D.

SECTION-A

1. (a) Explain the basic features of object oriented programming language.
- (b) Explain function overloading with the help of an example code in Java. 6, 6
2. (a) What is a class? How does it accomplish data hiding? Explain with an example.
- (b) Define data type. Describe the different data types used in Java. What are their value storage limits? 6, 6

SECTION-B

3. (a) Explain the purpose of different types of access specifiers in Java with a suitable example.
- (b) What is an abstract class? Explain the use of abstract class with an example. 6, 6
4. What is string class? How is it different from String Buffer class? Write a Java program to find the length of a given string. 12

SECTION-C

5. How does package help a Java program? What are its advantages? What is the name of default package in JDK? Give examples. 12
6. What is Multithreading? How does process differ from thread? Explain the steps for creating thread in Java. Also explain the predefined thread priorities in Java. 12

SECTION-D

7. Discuss the life cycle of Applet, with the help of a suitable block diagram. Write a Java applet to display "Java is an object oriented programming language" in red color. Support your code with suitable comments. 12
8. Explain how exception handling is performed in Java. Briefly discuss the concept of checked exception and unchecked exception, with an example of each. 12

SECTION-E (Compulsory Question)

9. (a) Explain the concept of abstraction with an example.
- (b) Discuss the concept of super-class and sub-class with examples in Java.
- (c) What is 'this' keyword? Explain its usage with an example.
- (d) Why main method in Java is static? Justify your answer. 3, 3, 3, 3