



TED (10) – 3069

(REVISION — 2010)

Reg. No. .... 1313147

Signature ....

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018**

**OOP THROUGH JAVA**

[Time : 3 hours

(Maximum marks : 100)

**PART — A**

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. What is the purpose of a constructor ?
2. What do you mean by private access specifier ?
3. In what all ways you can create a Thread ?
4. Give the use of new operator.
5. What will the Java interpreter do when it finds an error ?

(5 × 2 = 10)

**PART — B**

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. Differentiate between class and objects with the help of a suitable example.
2. Explain the data types in java.
3. Write a java program to find the area of circle and rectangle using method overloading.
4. Illustrate multilevel inheritance with an example.
5. Write the naming conventions used for packages, give 2 examples.
6. Differentiate between Applet and stand-alone application.
7. Explain the use of FileInputStream class with an example.

(5 × 6 = 30)





PART — C

(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT — I

- III (a) Explain command-line argument with example. 8  
(b) Distinguish between abstract class and final class. 7

OR

- IV (a) Explain the features of OOP. 8  
(b) Describe how a method inside a class invoked. 7

UNIT — II

- V (a) Explain different visibility modes in java. 8  
(b) Compare interfaces and classes. 7

OR

- VI (a) Write a java program to demonstrate abstract classes and methods. 8  
(b) Explain method overriding with example. 7

UNIT — III

- VII (a) Explain synchronization related to multithreading. 8  
(b) Explain the steps to create a package with example. 7

OR

- VIII (a) Illustrate hiding of classes from outside the package with example. 7  
(b) Explain the life cycle of a thread. 8

UNIT — IV

- IX (a) Explain exception handling and the tasks incorporated with exception handling. 8  
(b) Explain the Applet life cycle. 7

OR

- X (a) Illustrate the use of FileWriter and FileReader classes for copying characters from one file to another. 10  
(b) Illustrate the use of multiple catch statement with example. 5
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