Duration: 2 hours   **Max. Marks: 50**

Instructions: 1) All questions are compulsory

                2) Start each new question on a fresh page

                3) Figures to the right indicate full marks

Q1) Explain the following terms with examples wherever applicable.   **10 mks**

a) Polymorphism   b) Bytecode   c) Abstraction

d) Encapsulation   e) object

Q2) Answer the following.   **10 mks**

a) When do you define a class as an Abstract Class?   **2 mks**

b) Explain the **use** of following.   **3 mks**
     i) throws   ii) super   iii) Destructor

c) Distinguish between the Procedural Oriented Programming and Object Oriented   **5 mks**
Programming.

Q3) Answer the following.   **10 mks**

a) Explain with example Aggregation relation between classes.   **2 mks**

b) Explain the use of keyword *final* to define variable, method and class   **3 mks**

c) What is the importance of Inheritance Concept . Explain the types of Inheritance   **5 mks**
with examples.

Q4) Answer the following. 10 mks

a) How is Class variable different from Instance Variable. 2 mks

b) How is **default constructor** different from **Parameterized Constructor.** 3 mks

c) What is an Exception? Explain with example use of try – catch block for handling Exceptions. 5 mks

Q5) Answer the following. 10 mks

a) What is Generic Programming? 2 mks

b) What is a Stream? Explain the various Stream classes. 3 mks

c) Give differences between Abstract Class & Interface. 5 mks