Roll No._____

Sr. No. of Question Paper: 8066

Unique Paper Code: —

D

Name of the Course: **B. Sc. (G) Mathematical Sciences (II Year) Old Course**

Name/ Title of the paper: **Object Oriented Programming (Paper III)**

Duration: **03 Hours**   Maximum Marks: **38**

Attempt all questions. Mention the assumptions made in your answers.

Q1. (a) Explain various characteristics of an object oriented programming language.   (5)

(b) What do you mean by exception? How are they handled in java?   (5)

Q 2. (a) Differentiate between method overloading and method overriding.   (5)

(b) Explain concept of classes in java with one example.   (5)

Q 3. (a) What is the significance of constructors? Explain with one example.   (5)

(b) What are automatic type conversion rules in java? Explain with one example.   (3)

(c) Write a short note on Java Virtual Machine.   (2)

Q 4. (a) Discuss the various levels of access protection available for packages and their implications. Illustrate the same by giving one example.   (6)

(b) Write the outputs of the following java program codes.

(i) System.out.print("Welcome ");

System.out.print("to ");

System.out.println("Java!");

(ii) int a=10, b=15;

a=(a<b) ? (b+a): (b-a);   (1 x 2=2)