#### VILLA THERESA HIGH SCHOOL

SET: A

### FIRST TERM UNIT TEST-II

TIME: 40 MINUTES

COMPUTER APPLICATIONS

XA&B

MARKS: 20

2015-2016

DATE: 27 / 08 / 15

#### Question 1

(10)

# Answer the following questions:-

- 1. Differentiate between Formal and Actual Parameters.
- 2. Explain the concept of *constructor overloading* with an example.
- 3. What is Function Prototype?
- 4. What is the method of activating *parameterized constructor*? Write a statement to invoke a parameterized constructor which has three arguments (int, char, float) whose class name is Sample.
- 5. What is the use of the following keywords:
  - i. static

ii. return

## Question 2

(5)

Write Java statements for the following operations on Strings:-

String a = "James"; String b = "Bond";

- System.out.println(a.length());
- System.out.println(b.indexOf("n"));
- System.out.println(a.concat(b));
- 4. System.out.println(b.replace('o', 'a'));
- 5. System.out.println(a.startsWith("a"));



### Question 3

(5)

Write a program in Java having the class name getArea with overloaded functions:

- i. double arrea (double pi, double r) to find and return area of circle  $(\pi r^2)$ where  $\pi = 3.141$
- ii. double arrea (double I, double b) to find and return the area of rectangle(I\*b)
- iii. double arrea (double s)- to find and return area of square (s\*s)

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