KGiSL INSTITUTE OF TECHNOLOGY

***Department of Information Technology***

Question Bank

**PART – A**

**2 – Marks**

1. Define OOP
2. What is Object Oriented Programming?
3. What are the four principles?
4. What is Abstraction?
5. What is encapsulation?
6. Write a java program to compute BMI of a person.
7. What is Constructor?
8. Define Parameterized Constructor.
9. Give a short note on static members of a class.
10. List the access specifiers in java with it’s access rights.
11. Write program to store and print odd numbers from 1 to 100 using arrays.
12. Write a java program to compute simple interest for a bank.
13. Give a short note on constants in a class.’
14. How do we comment in java source files?
15. List the operators supported by java.
16. Define package.

**PART – B**

**13 – Marks**

1. Explain about principles of OOPS.
2. Explain about characteristics of java.
3. Explain about data types supported by java with simple example.
4. Explain about constructors in java with example.
5. Explain about control structures available in java with some example.
6. Write a program that gets the student details from the user
   1. Name, Roll-no, Marks obtained from 3 subjects as input.
   2. Compute the total and average with precision.
   3. Display their grade based on average [O, A, B, C, D, F].
7. Write a program for unit conversion based on following requirement
   1. Converters need for [Miles to Kilometre, Celsius to Fahrenheit, Hours to Seconds ] and vice versa.
   2. Place them in a package in com.exam.converters and import and use as third party packages.
   3. Both parameterized and non default constructor needed for failsafe.
8. Write an java program that handles the array as follows
   1. Get the array limit from the user and create exactly the same size integer array.
   2. Start to receive data from user and store in array.
      1. If user enters odd number just store it otherwise add 10 with user input and store.
   3. Perform sum of array elements and find the sum is prime or not.