Question Bank (I scheme)

Name of Subject: Java Programming (JPR)

Unit Test: I

Subject Code: 22412 Course: CM/IF4I

Semester: IV

Chapter 1: Basic syntactical constructs in java (10 marks)

2 Marks

1. Write all primitive data types available in java with their storage size in bytes

- 2. Define term class with syntax.
- 3. Define term token and enlist types of token in java
- 4. Describe conditional operator in java.
- 5. Write syntax and example for-each.

4 Marks

- 1. Explain any four features of java.
- 2. Describe concept of type casting and Explain its types with proper syntax and example.
- 3. State & explain scope of variable with an example.
- 4. Write a program to accept marks and find grade using if statement.
- 5. Write a program to accept a character and check whether a character is vowel or consonant using switch-case statement.
- 6. Write a java program to display all the odd numbers between 1 to 30 using for loop & if statement.
- 7. Write a program to display number 1 to 50 using do—while loop.

Chapter 2: Derived Syntactical Constructs in Java (18 marks)

2 Marks

- 1. Define term constructor with syntax.
- 2. Define term array with syntax.
- 3. Describe the concept of garbage collection.
- 4. State the difference between = = ,equals() and compareTo() method.

4 marks

- 1. Explain any four method of String with syntax and example.
- 2. Describe the visibility controls in Java with suitable example.
- 3. Write a program to implement different types of constructors to perform addition of complex number.
- 4. Develop a program to print command line argument using for loop.
- 5. Explain any four method of Vector class with syntax and example.
- 6. Write a program to find largest number in array.
- 7. Write a java program to implement following functions of string: (1) Calculate length of string (2) compare between strings (3) Concatenating strings
- 8. Describe the concept wrapper classes in Java and explain any one wrapper in detail with its methods.

Chapter 3: Inheritance, Interface and Package (12 marks)

2 Marks

- 1. Define inheritance and its types.
- 2. State and use of super keyword.
- 3. State any two uses of final keyword.
- 4. Describe concept of package and its syntax.

4 Marks

- 1. What is Interface? Describe syntax, feature & need of an interface
- 2. Write a single program to implement inheritance and polymorphism in java.
- 3. Develop a program to find area of rectangle and circle using interfaces.
- 4. Write a program to implement user defined packages in terms of creating a new package and importing the same.
- 5. Write a java program to extend interface assuming suitable data.
- 6. Describe concept of multiple inheritances? Write a java program to implement
- 7. multiple inheritance
- 8. Develop a program to implement the multilevel inheritance.
- 9. Explain method overriding with suitable example.
- 10. Develop a program which consists of the package named let_me_calculate with a class named calculator and a method named add to add two integer numbers. Import let_me_calculate package in another program (class named Demo) to add two numbers.