**Chap:1 Introduction to java**

1 state any four features of java.

2. Describe various bitwise operators with example.

3 Why Java is popular on internet?

4 What is byte code? Explain any two tools available in JDK

1. Difference between break and continue statements.
2. Explain, why Java is called as true object oriented language.
3. Write a program to accept a number and print its factorial.
4. List different types in Java.
5. State different features of Java. Those make it differ from C language.
6. Write a program to calculate percentage of 4 subjects and print in suitable format.
7. Explain relational and logical operators in java.
8. Write a program to generate Fibonacci series

1 1 2 3 5 8 13 using any number of loop.

1. Write a program to print sum of number.

**Chap:2 Classes and Inheritance**

1. What is method overloading? Give one example.
2. What is vector how it differ from array
3. Explain substring(), concat(), replace(),length(),equals(),charAt() methods of string.
4. What is application of wrapper class? Explain Integer wrapper class.
5. What is constructor? Explain constructor overloading with example.
6. What is Abstract class? Example
7. Define class employee with data members as name and salary. Accept data fo 5 members and print it.
8. Write a program to print prime number
9. What is difference between overloading and overrriding

**Chap:3 Interfaces and Packages**

1. What is interface? Describe syntax,features and need of an interface
2. Distinguish between class and interface.
3. Why do we create interface
4. What is package? How to crate it? How it is achieved in java.
5. Explain how user defined packages created and accessed in java.
6. Write a program to implement following inheritance

Interface:sport

Sport\_wt

Class: Student

Rollno,name

Class: Marks

M1,m2

**Chap:4 Multithreading and exception Handling**

1. Describe life cycle of thread
2. Explain synchronization with suitable example
3. Write a program to define two threads one thread will prints even numbers upto 50 and other will print odd numbers.
4. Explain thread priority and method for getting and setting thread priority
5. Explain following things w.r.t exception handling
6. Try 2. Catch 3.throw 4. Throws
7. Write a program which throws “invalid age” if user enters negative numbers for value of variable age of employee
8. Explain thread? Write difference between multithreading and multitasking
9. Explain following methods related to thread 1. Suspend() 2. Resume() 3. Yield() 4. Wait()
10. What is exception? How it is handled? Explain with suitable example.

**Chap:5 Java Applets & Graphics Progg.**

1. Write an applet which shows two concentric filled with red and yellow color respectively
2. Write procedure to accept parameters to an applet.
3. Write an applet to accept a username in the form of parameter and print “Hello<username>
4. Write a difference between java applet and java application
5. Explain steps to create and execute an applet with an example
6. Explain applet life cycle with suitable example
7. Write a program to set background and foreground color using applet
8. Describe any four methods from graphics class

**Chap:6 Streams and File I/O**

1 What is stream? Explain various types of stream

2 What are stream classes? List any two input stream classes from character stream.

1. Explain serialization in relation with stream classes

4 Write any two methods of file and file input stream class each.