





iv) To inherit an interface from a class we use the keyword .....

- a) extends
- b) implements
- c) both (a) & (b)
- d) none of these.

v) In java applet, 'Stop ( )' method can be invoked for a thread

- a) once
- b) twice
- c) compiler error
- d) not at all.

vi) Dynamic method dispatcher is used for

- a) resolving method overriding
- b) resolving multilevel inheritance
- c) resolving multiple inheritance anomaly
- d) none of these.

vii) JVM stands for

- a) Java Virtual Machine
- b) Java Visual Machine
- c) Java Vision Machine
- d) None of these.

viii) Each time we shift a value to the right using '>>' operator it divides the value by ..... ?

- a) 4
- b) 2
- c) 8
- d) None of these.



ix) Which of the following statement is true regarding constructors ?

- a) All cases must be define as a constructor
- b) A constructor can be defined private
- c) A constructor can return a value
- d) A constructor must initialize all the fields of a class.

x) `int x = 2;`  
`for (x = 0; x < 5; x++)`  
`System.out.println(x);`

The output is

- a) 0 1 2 3 4
- b) 1 2 3 4
- c) 2 3 4
- d) none of these.

**GROUP – B**  
**( Short Answer Type Questions )**

Answer any *three* of the following. 3 × 5 = 15

2. What are the differences between run time polymorphism & compile time polymorphism ? 5
3. What do you mean by object oriented programming ? How it differs from Structure Oriented Programming ? 2 + 3
4. What are the differences between method overloading and method overriding ? 5
5. What is Garbage collection ? What is static variable ? Give example for both.  $1 \frac{1}{2} + 1 \frac{1}{2} + 2$
6. What is synchronization ? When is it used ? 3 + 2



**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.

$3 \times 15 = 45$

7. a) What are the features of Java language ? Describe.  
b) What do you mean by command line argument ?  
c) What do you mean by subclass constructor method ?  
 $5 + 5 + 5$
8. a) Describe the complete life cycle of a thread.  
b) Explain the methods by which you can block a thread.  
c) Describe Inter-thread communication.  
d) What is thread synchronization ?  $4 + 4 + 4 + 3$
9. a) What is applet ?  
b) Describe applet life cycle.  
c) What is local applet ?  
d) What are the differences between Java application & Java applet ?  
e) What are the attributes of applet tag ?  $2 + 4 + 2 + 5 + 2$
10. a) What is an exception ? Explain with an example, how exceptions are handled in Java.  
b) What is multithreading ? Explain two advantages of multithreaded programs. Write a program in Java to explain how different priorities can be assigned to different threads.  $( 2 + 4 ) + ( 2 + 2 + 5 )$
11. a) What is a package ? Explain the different access controls for packages in Java.  
b) What is Unicode ? Explain the advantage of using Unicode.  
c) Explain operators with reference to Java. Explain two dimensional array with example.  $( 2 + 3 ) + 2 + ( 3 + 5 )$