

Fourth Semester Examination – 2006

PROGRAMMING WITH JAVA

Full Marks : 70

Time : 3 Hours

*Answer question No. 1 which is compulsory and any five questions from the remaining questions.*

*The figures in the right-hand margin indicate marks for the questions.*

1. Answer the following questions ; 2×10
- (i) What would happen when the following is compiled and executed ? Select the one correct answer.

P.T.O.

- (vi) What happens when the following code is compiled and run ? Select the one correct answer.

```
for(int i = 1 ; < 3 ; i++)  
    for (int j = 3 ; j > i ; j--)  
        assert i!=j { System.out.println(i) ; }
```

- (a) The class compiles and runs, but does not print anything.
- (b) The number 2 gets printed with Assertion Error
- (c) The number 3 gets printed with Assertion Error
- (d) The program generates a compilation error.

- (vii) Which two of these listener classes have corresponding adapter classes ?

- (a) ContainerListener
- (b) TextListener.
- (c) ItemListener
- (d) Mouse Motion Listener.

- (viii) Which one abstract class from the following is the super class of all classes used for writing characters ?

- (a) Writer
- (b) FileWriter
- (c) CharWriter
- (d) OutputStream.

- (ix) Which of these classes are not abstract ?

- (a) FilterWriter
- (b) Reader
- (c) InputStream
- (d) CharArrayReader.

- (x) What gets printed on the standard output when the class below is compiled and executed ?

```

public class ShortCkt {
public static void main (String args[]) {
    int i = 0,
    boolean t = true ;
    boolean f = false, b ;
    b = (t || ((i++) == 0));
    b = (f || ((i+=2) > 0));
    System.out.println (i);
}
}

```

2. Explain why java is famous for ? Explain all the buzzwords of java. 10
3. What is the difference between applet and application ? In details. 10
4. Explain garbage collection. 10

5. What is similarities/difference between an Abstract class and Interface ? 10
6. What is synchronized keyword ? In what situations you will use it ? 10
7. What is Runnable interface ? Are there any other ways to make a java program as multithred java program ? 10
8. Explain the user defined Exceptions. 10