

**Gujarat University**  
**B.E. (C.E.) Semester-III**  
**Java Programming**

**Saturday, 29th December, 2007]**

**[Time : 3 Hours**  
**Max. Marks : 100**

- Instructions** : ( 1 ) Attempt **all** questions from each section  
 ( 2 ) Answer to the two sections must be written in **seperate** answer books.  
 ( 2 ) Figure to the right indicate **full** marks.  
 ( 2 ) Assume suitable additional data if necessary.

**SECTION I**

- |    |   |  |    |
|----|---|--|----|
| 1. | A | Write and explain features of Java language.                                     | 8  |
|    | B | How to do Inheritance in java and also explain various access modifiers in java. | 8  |
|    | C | What is the use of 'static' keyword.   | 2  |
| 2. | A | What is Exception? Explain Exception handling mechanism with suitable example.   | 8  |
|    | B | What is package? Write and explain steps for creating package.                   | 8  |
|    |   | OR   |    |
|    | B | Write a note on Interface.   | 8  |
| 3  |   | Write notes on following (Any four)  | 16 |
|    | 1 | Inner class  |    |
|    | 2 | Reflection   |    |
|    | 3 | Object serialization   |    |
|    | 4 | Array  |    |
|    | 5 | Byte stream Vs Character stream  |    |

**SECTION : II**

- |   |   |   |   |
|---|---|---|---|
| 4 | A | Write a java program which reads data from one text file and writes the same in other text file.                      | 9 |
|   | B | Write a java program which reads 5 numbers from keyboard and shows those numbers in sorted form.                      | 9 |
| 5 | A | What is Thread? Explain usage of following methods with respect to multi threading in java.<br>a. wait<br>b. notify   | 8 |
|   | B | What is Thread? Explain various ways to create multiple threads in java.  | 8 |
| 6 | A | Write a note on AWT.  | 8 |
|   | B | Write a java program which creates applet with "Hello world" text on it. Background color of applet should be yellow. | 8 |
|   |   | OR  |   |
|   | B | What is event? How to handle events in java? Explain event handling mechanism with suitable example                   | 8 |