

**IV B.Tech I Semester Supplementary Examinations, November 2005**  
**OBJECT ORIENTED PROGRAMMING THROUGH JAVA**  
**( Common to Electronics & Communication Engineering, Electronics & Instrumentation Engineering, Electronics & Control Engineering and Electronics & Telematics)**

**Time: 3 hours****Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) Write about any 6 distinct features in Java programming. [8]  
(b) Write about the standard data types in Java. [8]
2. (a) What is a class ? How does it accomplish data hiding ? [6]  
(b) Explain the difference between an object and a class. [6]  
(c) What is a constructor ? what are its special properties ? [4]
3. (a) What is an interface? What is the major difference between an interface and class. [8]  
(b) Describe the various forms of implementing interfaces. Give examples of java code for each case. [8]
4. Write a java program to create frame with two button called father and mother. When he click the father button the name of the father, his age and designation must appear. When you click mother similar detail of mother appears. [16]
5. Write a program to draw several shapes in the created window using applets. [16]
6. (a) Explain at least 5 functions of the applet class with necessary example. [8]  
(b) Write an applet that asks the user to enter two floating-point numbers, obtain the two numbers from the user and draws the sum, product, quotient of the two numbers. [8]
7. (a) What are the differences between Thread class and the Runnable interface? [8]  
(b) In a single-processor system, how can multiple threads run simultaneously? [8]
8. Write a Java program to read a list of elements from a data file and store the list in the:  
(a) the same file [8]  
(b) another file [8]

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