



**DHARMSINH DESAI UNIVERSITY, NADIAD**  
**FACULTY OF TECHNOLOGY**  
**BLOCK SESSIONAL**  
**SUBJECT: (IT 616) CORE JAVA TECHNOLOGY**

Examination	: B.TECH - Semester - VI	Seat No.	:
Date	: 10/04/2013	Day	: Wednesday
Time	: 2:00 to 03:15	Max. Marks	: 36

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**INSTRUCTIONS:**

1. Figures to the right indicate maximum marks for that question.
  2. The symbols used carry their usual meanings.
  3. Assume suitable data, if required & mention them clearly.
  4. Draw neat sketches wherever necessary.
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**Q.1 Do as directed.**

- (a) What is the purpose of instanceof operator in java? [2]
- (b) Explain this and super keyword. [2]
- (c) What is the use of Adapter classes of java? [2]
- (d) Explain the use of update() method. When it is invoked? [2]
- (e) Explain Throwable class. [2]
- (f) Explain RandomAccessFile class of IO package. [2]

**Q.2 Attempt ANY TWO from the following.**

- (a) Write a program that compares two txt files. If equal line is found then it should display those lines to the console. [6]
- (b) Write an Applet of a moving banner, pass sleep time as parameter in applet tag. [6]
- (c) Explain Java features and, also explain java garbage collection mechanism. [6]

- Q.3**
- (a) Explain Exception handling. Write an application that generates custom exception if any value from its command line arguments is negative. [6]
  - (b) Write UDP client server program for calculating area of circle. Client send radius to server and server should respond area back to client. [6]

**OR**

- Q.3**
- (a) Explain different Layout Managers of Java, also explain GridLayout with example. [6]
  - (b) State difference between abstract class and interface. Write a program which demonstrates use of abstract class. [6]