



DHARMSINH DESAI UNIVERSITY, NADIAD
FACULTY OF TECHNOLOGY
B.TECH. SEMESTER VI [IT]
SUBJECT: (616) CORE JAVA TECHNOLOGY

Examination	: Block Exam	Seat No.	: _____
Date	: 05/03/2014	Day	: Saturday
Time	: 03:00 to 4:15	Max. Marks	: 36

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 Class Initializer block? [2]
- (b) What is the difference between "==" operator and equals() method of Object class? [2]
- (c) What is Streams? Explain RandomAccessFile constructor of IO package. [2]
- (d) What is the purpose of calling yield() and sleep() methods of thread. [2]
- (e) Explain Java reference counting mechanism. [2]
- (f) Explain <param> Applet tag? [2]

Q.2 Attempt *Any Two* from the following questions. [12]

- (a) Explain String, StringBuffer and StringTokenizer classes. Give an appropriate example of StringTokenizer.
- (b) Implement Echo Server-Client chat application using Socket programming. Server is capable of servicing multiple clients.
- (c) What is Layout Manager? Explain any three Layout Managers available in java.awt package.

Q-3 Attempt *ALL* from the following questions.

- (a) Write an applet that tracks the position of the mouse when it is dragged or moved. [6]
At the current mouse position, it displays message (x, y) showing current position of the mouse. The message should disappear as soon as the user releases the mouse.
- (b) Write a program that copies source file to target file and displays number of bytes [6]
in the file. The user provides source file and target file as command line arguments..

OR

Q-3 Attempt *ALL* from the following questions.

- (a) Create sample TCP chat application where client and server can chat with each other. [6]
- (b) What are differences between Exception and Error? Explain custom Exception with an example. [6]