Examination	: B.TECH - Semester - VI	**Seat No.**	:	
Date	: 03/04/2013	**Day**	: Wednesday	
Time	: 12:00 to 1:15	**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.

Q.1 Do as directed.
(a) What are checked exceptions? List name of checked exceptions. **[2]**
(b) What is the purpose of calling yield() and sleep() methods of thread. **[2]**
(c) Explain purpose of using Generics in java. **[2]**
(d) Write a code to display Map elements using iterable interface. **[2]**
(e) i. UnknownHostException SocketException is a subclass of _____Exception. **[2]**
     ii. Which type of exception does a join() method throw?
(f) Differentiate throw and throws keywords. **[2]**

Q.2 Attempt *ANY TWO* from the following. **[12]**
(a) Explain Different ways of creating Thread also draw the life cycle of a thread. **[6]**
(b) Write a program that copies contents of File1.dat to File2.dat. Handle proper exceptions. **[6]**
(c) Create a generic class MyStack having push and pop functionality. Creates threads for pushing **[6]** and poping the elements. Make this threads synchronized so at a time only one operation can be done.

Q.3 (a) Explain the importance of Exception handling in java. Write a program to **[6]** handle NoSuchMethodException, ArrayIndexOutofBoundsException using try-catch-finally and throw.
(b) Write a program that count number of lines, words, and characters from a file. **[6]**
OR
Q.3 (a) Write a program that takes input for filename and search word from command line **[6]** arguments and checks whether that file exists or not. If exists, the program will display those lines from a file that contains given search word.
(b) Create sample TCP chat application where client and server can chat with each other. **[6]**