

DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY THIRD SESSIONAL

SUBJECT: (IT 616) CORE JAVA TECHNOLOGY

Examination : B.TECH - Semester - VI Seat No. :
Date : 29/03/2014 Day : Saturday

Time : 12:45 to 2:00 Max. Marks : 36

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- 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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- (a) What is a Socket in context of networking? [2]
- (b) Suppose MyThread extends javal.lang.Thread and MyRunnable implements java.lang.Runnable. Both classes have no-argument constructor. Which of the following cause a thread in the JVM to begin execution?
 - 1. (new MyThread()).start();
 - 2. (new MyRunnable()).run();
 - 3. (new Thread(new MyRunnable())).start();
 - 4. (new MyThread()).run();
- (c) List methods used in InterThread Communication. [2]
- (d) What is the basic purpose of DataStreams?
- (e) What are the differences between server socket and client socket? [2]
- (f) Write a code for reading String data using BufferedReader class. [2]

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

[12] [6]

[2]

- (a) Explain the life cycle of a thread. Explain different ways for creating Thread.
- (b) Write programs for client-server application, in which client gets the integer value [6] (number) from user/console and sends it to server. Server calculates the area of circle for that number and sends result back to client. Client displays area of circle for entered number.
- (c) 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.

Q.3 Attempt the following questions.

- (a) Write a program to simulate moving banner applet. Banner moves from left to right or [6] right to left on pressing button ">>" and "<<" respectively.
- (b) Write a program to read the contents of a file into a character array and write it into [6] another file. Get names of both the files from the user through standard input.

OR

Q.3 Attempt the following questions.

- (a) Write a client/server application. The client provides the file name to server, server opens and retrieves file content and send it to client.
- (b) What is synchronization? Explain how java provides synchronization. Explain how access to an object is synchronized in java with example. [6]