Name_   Lastname_   Student number

Net Computing
Herkansing
academic year 2010-11

Rules

- This is a closed books exam.

- The operation of any electronic device is prohibited (e.g, no calculator, phone or PDA).

- Answer the questions being *precise, complete,* and *formal.*

- Write as *clearly* as possible, both in terms of handwriting and wording.

Questions

1. Illustrate the general structure of a Remote Method Invocation architecture. Use Java RMI as an example for the explanation.

2. Illustrate the components of the name `http://www.facebook.com`. Illustrate the differences between the iterative and the recursive name resolution and evaluate the two options.

3. Illustrate the phases of a process joining a Jini network and looking for a color printing service in the `logistic` domain.

4. What is a directory service? What are its main functions? Provide an example of a technology implementing a directory service.

5. Write Java code with line by line comments to perform the following operation:[1] connect to the Web page of the University of Groningen, download the main HTML home page and echo it on standard output.

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[1]Syntax errors will not be considered in the evaluation of this exercise. Java objects that might be useful for the solution are: `Inet4Address, Socket, DataOutputStream, DataInputStream`.