You have been asked to investigate into the Local Area Network set up in your organization. Your tasks include:

1. Give a brief description of your organization and its needs for communication networks.

2. Describe the current setup, including:
   (a) Its type (client-server, peer-to-peer, …)
   (b) The hardware setup (number and types of computers, number and types of servers, etc.)
   (c) The software setup (network operating system, major application software, …)
   (d) A simple schematic diagram of the network setup.

3. Study the current administration needs of your company and recommend improvements to the current communication network as appropriate.
   (a) Specifically, describe two of the most important examples of internal and two examples of external communication, commenting on the effectiveness of each based on the current network, and
   (b) Recommend improvements to the network.

4. Investigate the implications of a WAN for the needs of your company, taking account of cost, flexibility and efficiency. Research the following areas--
   (a) Type of hardware to be purchased, with justifications. Compare the options in terms of cost, functionality, suitability, etc.
   (b) Type of software packages to be purchased, with justifications. Compare the options in terms of cost, functionality, suitability, etc.

5. How is your business using the Internet?
   (a) How effective is it as a method of electronic communication for your company?
   (b) What enhancements are appropriate?

6. Identify at least two applications in your company which may benefit from distributed computing. Specify specific distributed computing systems and/or telecommunications architectures suitable for these applications.