IE2012 - Systems and Network Programming(C/Python)

Final paper structure

The paper is preceded by a 10-minutes reading period. The supervisor will indicate when answering may commence

The paper has 4 questions. Each question carries 25 marks

Question 1

- Basic Linux commands
- Areas covered in 1 – 5 lab activities (Cookies, HTTP requests basics in malware analysis)

Question 2

- Introduction to socket programming
- Basic socket functions and status of the sockets
- Analyzing strace outputs of iterative server

Question 3

- Concurrent server-based theories
- Analyze concurrent server strace output
- Understand how IO multiplexing used in client server architecture (in client program)

Question 4

- DNS resolution
- Analyzing basic client server architecture implemented using Python
- Develop bash script for a given scenario