Security

(a) Give four uses of anonymous communications other than censorship resistance. 
[4 marks]

(b) Explain the role of latency in anonymous communications. What limits or costs does low latency impose? 
[4 marks]

(c) Imagine you are a government censor, trying to identify which of your citizens are viewing forbidden websites through Tor.

(i) If you are able to wiretap the Internet connections of any 1% of the population, what effective capability does this give against Tor users? 
[4 marks]

(ii) If there are currently 1000 active Tor nodes, what extra capability would you acquire if you added a further 100 nodes under your control? Explain any assumptions you make. 
[4 marks]

(d) If you are using Tor to escape censorship, how often should you change the circuit path you use? Explain your answer. 
[4 marks]