

Assignment 4

Due Friday May 15. Show your work. Hand in your assignment using the appropriate dropbox on the course web site. Assignments submitted after the solutions are made available will be given a mark of zero.

Question 1

Create a BIND-format DNS record (one line) that says that mail for the domain bcit.ca should be sent to outlook.live.net with a priority 10. Use an explicit domain name.

Question 2

Would you save the record created above to a recursive or to an authoritative DNS server? Would it be accessed by recursive or authoritative name servers?

Question 3

Assume the record above was uploaded at 1PM and has a TTL of 1 hour. If it was most recently retrieved from an authoritative name server at 2 PM and from a recursive name server at 3 PM, when should it no longer be considered valid?

Question 4

Parse the following URI:

```
ftp://anonymous:anonymous@example.org/old/archive.tar.gz
```

Question 5

What do the following MIME types mean?

1. video/ogg
2. multipart/mixed
3. application/octet-stream

Question 6

Create an HTML document containing your name, BCIT ID and the name of your favourite (or least favourite) food. Your ID should be in a bold font and food name should be a link to a web page about the food (a recipe, the Wikipedia entry, a fan site, etc). You can create the HTML file with any text editor (e.g. Notepad++).

The answer to this question should include: (a) the html code (copied and paste from Notepad++, for example) and (b) a screen capture of what your HTML file looks like when rendered in a browser.