

Due on: Wednesday 18.04.2007 by 1PM (in post box/via email)

Exercise 1.1

- a) [3 points] What is the difference between a URI, a URL and a URN? Give an example for each (not yet given in the lecture)
- b) [2 points] Give an example for hierarchical URI, opaque URI and relative URI.

Exercise 1.2

- a) [3 points] Encode the following Unicode character to UTF-8
  1. U+00A9 (1010 1001)
  2. U+05D0
  3. U+2260
- b) [4 points] Encode the following words in UCS-2 and UTF-8:
  1. ANKER
  2. Françios
  3. ANKAPA (Note: this is in Greek Characters)
- c) [4 points] Decode the following Hex codes. *Tips check the Unicode website for the Unicode charts*
  1. 46 72 61 6E 63 EA 73
  2. 58 4D 4C 20 52 6F 63 6B 73 21
  3. 395 3BB 3BB 3AC 3C2

Exercise 1.3

[4 points] Is the following XML document well-formed? Describe and correct all errors.

```
<?xml version="1.0" ?>
<cds>
  <cd 2sided="true">
    <title>Grace Live </title>
    <artist id="1">Jeff Berry Band </artist>
    <TRACKS>
      <track>Take me higher</track>
      ...
      <track>If you say go</track>
    </tracks>
  </cd cat="rock">
  <cd 2sided="false">
    <title>Winter Pays For Summer </title>
```

```
<artist id='2">Glen Phillips </artist>
<tracks>
  <track>    Duck And Cover </track>
  ...
  <track> Don't Need Anything </track>
</tracks>
</cd>
<cd cat="country"/>
</cds>
```