

CS1102 Class Test

Sample

Answer questions 1, 2 and 3
Write your answers onto this sheet
Time allowed: 30 minutes

Student id: _____

1. (5 marks) In each question, encircle up to **one** option. You will score 1 mark for each correct answer; you will lose $\frac{1}{2}$ mark for each incorrect answer.

- (i) Consider the following (X)HTML element

```
<span class="warning">Don't drink bleach</span>
```

Which is the element *content*?

- a. "warning"
 - b. Don't drink bleach
 - c. All of it
 - d. span
- (ii) The `color` property in CSS is inherited. Assume that this:

```
span {color: red;}  
em {color: blue;}
```

is the only stylesheet that is attached to this (X)HTML:

```
<span class="blue">To be, or <em class="red">not</em> to be</span>
```

In what colour will the word "not" be displayed?

- a. red
 - b. blue
 - c. purple
 - d. cannot be determined
- (iii) Which of these statements about *GIF* images is *not* true?
- a. They use 8-bit truecolour
 - b. Their compression algorithm is lossless
 - c. They may be interlaced
 - d. They may contain transparent areas
- (iv) Which of these is *not* part of a *TCP* segment's header
- a. A segment sequence number
 - b. The destination port number
 - c. The time to live
 - d. A checksum
- (v) Which of these is *not* organised hierarchically?
- a. Directories/folders and files on a computer's file system
 - b. Elements in an (X)HTML document
 - c. Rules in a CSS stylesheet
 - d. Domain names

2. ($2\frac{1}{2}$ marks) Suppose a router receives a packet. Explain how it decides where to send it next.

3. ($2\frac{1}{2}$ marks) Explain how DNS blacklists (DNSBL) work as spam filters. Explain how the list operator populates the blacklist. Describe the problems of DNSBLs.