

COMPSCI 111 / 111G

*Mastering Cyberspace:
An introduction to practical computing*

Exam Revision

Type of Questions

Simple, short-answer questions:

“What is open source software?”

Some problem-solving question:

“What output is produced by the following LaTeX code?”

Digital Information, Hardware and Software (15 marks)

How many bits are required to represent the decimal number XXX?

How many colours can be represented by XXX bits?

What is the difference between components XXX and YYY?

Describe the different categories of software and explain what the differences are.

Internet (15 marks)

Put the following events into chronological order.

What does the following acronym mean/stand for?

Explain how the human is involved in this technology.

Compare the following, what makes them different:
Web page, wiki, forum, email, blog.

Special Topics (6 marks)

What is AI and how do we know when we have it?

How might hackers be able to achieve a certain task?

How does algorithm XXX solve problem YYY efficiently?

Home/Office Applications (30 marks)

What does the acronym XXX mean/stand for?

How does XXX differ from YYY?

What are the properties of GIF/JPEG compression?

VLOOKUP, IF

Concepts related to databases and database management systems: tables, records, fields, keys (primary, foreign), relationships.

Guidelines to produce good Powerpoint presentations.

XHTML/CSS (10 marks)

Given a screen shot of a web page and given the style sheet used, write the XHTML code.

LaTeX (10 marks)

Given a screen shot of the output, write the LaTeX code. All commands required will be listed.

Will include mathematics formulae (including sum and fractions).

Will require use of commands.

Will require use of environments.

Python (8 marks)

Write a program that does something similar to lab exercises.

Given the following program XXX that includes a loop, what is the output?

History and Social Issues (6 marks)

Names of corporations and people involved with them (IBM, Apple, Microsoft, Intel).

Which company produced XXX?

Describe the difference between computer problem XXX and YYY.