

Name: _____

PPSN: _____



Quality and Qualifications Ireland

Computer Architecture & Systems
C20012

7th May 2014

10:00 - 12:00

Duration: 2 hours

Instructions:

1. Write your exam number on your answer book
2. Answer 10 questions from part A
3. Answer 2 questions from part B

You may not:

1. Calculators may NOT be used

This exam counts for 40% of the module

Computer Architecture & Systems 2014

CTI Senior College, Clonmel

Section A (20%)

Answer any ten questions. All questions carry equal marks (2 marks each). If you answer more than ten questions the best ten marks will be chosen.

1. What is the difference between **FTP** and **FTPS**, and why is the difference important?
2. What do the letters **RGB** stand for, and where are they used?
3. Write these file sizes in *increasing* order:

2GB 12K 99Bytes 500MB
4. Convert the binary value **0100 0011** into decimal.
5. What is a **LAMP** 'stack' and what is it used for?
6. What is **TCP/IP** and where is it used?
7. What is **USB** and what is it used for?
8. What is the Unix command to change file permissions? Give one example of when you might need to do this.
9. Write a note on the Data Protection Act, outlining 4 of your main rights.
10. List two *advantages* of email over traditional mail.
11. Who is the Unix super-user? State one advantage of being super-user.
12. List two different types of devices that can be used for backups. Give one advantage and one disadvantage of each.

Section B (20%)

*Answer any **two** questions. All questions carry equal marks (10 marks each). If you answer more than two questions the best two marks will be chosen.*

1. (a) Discuss common software requirements for a small office, listing the applications used, their purpose and what a business might use them for.

8 marks

(b) Name two common types of software which are available both for Linux and Microsoft Windows, and with which you are familiar. Write a brief note on each.

2 marks

2. (a) Discuss the main decisions to be made when buying a home computer for general use. List 4 main components you'll need to consider, *excluding* peripherals. Write a detailed note on each to explain its function, giving an example of its use, and considerations when purchasing.

8 marks

(b) Write a note about 2 different peripherals you may also require, explaining their use.

2 marks

3. (a) Explain in detail how a web page gets from a server to a client computer. Draw a diagram to illustrate and explain any terminology you use.

8 marks

(b) Who invented http/html and when did she or he do so?

2 marks