NATIONAL COLLEGE OF IRELAND

BSc (Hons) in Computing - Year 1
BSc (Hons) in Business Information Systems - Year 1
BSHC & BSHBIS
Full time

Higher Certificate in Science in Computing – Year 1
HCC & HCCE
Full time & Part time

Semester One Examinations – 2009/2010

Friday 11th Dec, 2009
10.00am – 11.45am

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Introduction to Computing

Dr. Brian Nolan
Ms. Elizabeth Sherry
Ms. Elaine Maher

Answer **Section A** and <u>only one</u> question from **Section B**

Duration of exam: 1.5 Hours
Attachments: None

Section A

Question 1

Explain the meaning of each of the following words/phrases; give clear and precise examples where appropriate:

a) Peripheral device
b) Graphical User Interface (GUI)
c) Volatile
d) Analog transmission
e) Machine cycle
f) Megabyte
g) ROM
h) ALU
i) Modem
j) Application software

(10 x 6 Marks)

Section B

Question 2

a) Use a diagram to illustrate the main components of a typical computer system.

(10 Marks)

b) How would you define the term *Computer*? Explain the main differences between primary and secondary storage. Use examples to illustrate your answer.

(20 Marks)

c) Differentiate between DVD storage and hard disk storage.

(10 Marks)

Question 3

a) Define what a telecommunications system is? Describe five different telecommunications transmission media.

(20 Marks)

b) What is System software? List five functions of an operating system

(10 Marks)

c) Explain what is meant by a database Give 5 examples of where a database may be of benefit.

(10 Marks)

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