IMIS

The Professional Association for IS Professiona

Institute for the Management of Information Systems
Suite A, (Part) 2nd floor, 3 White Oak Square
London Road, Swanley, Kent BR8 7AG

email: central@imis.org.uk
Web site: www.imis.org.uk

DIPLOMA

USING ICT IN AN ORGANISATIONAL ENVIRONMENT (D3)

WEDNESDAY 5th JUNE 2013

TIME: 14.00 – 17.00 HOURS

DURATION: 3 HOURS

Candidates should answer ALL the questions in Part A and THREE of the five questions in Part B. Part A carries 40% of the marks available and Part B carries 60%. Candidates should allocate their time accordingly.

No reference material of any kind may be taken into the examination.

[Turn Over]

PART A.
Answer ALL questions in this section

Question A1.

Define the term **SMARTCARD** and describe **TWO** types of smartcard.   (5 marks)

Question A2.

Give and describe **THREE** safeguards that should be in place on a computer network to avoid illegal usage.   (5 marks)

Question A3.

List and describe the essential hardware components required for an Intranet.
                                                                    (5 marks)

Question A4.

What is the **BOOT Process**, and why is the **BOOT Process** so important?   (5 marks)

Question A5.

Define the term **ENCRYPTION** and why is **ENCRYPTION** so important when transferring data over the Internet?   (5 marks)

Question A6.

Define the terms **E-Business** and **E-Commerce** and the main difference between them.
                                                                    (5 marks)

Question A7.

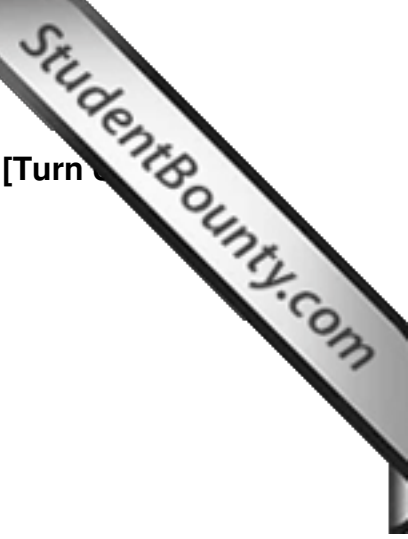Define the term **ETHICS** and describe why **ETHICS** is so important in the Information Technology field?
                                                                    (5 marks)

Question A8.

Cloud Computing is classified as an Emerging Technology.
Define the term Cloud Computing and describe **TWO** reasons why a company would use it.
                                                                    (5 marks)
                                                    (PART A – Total 40 marks)

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PART B.
Answer any THREE of the following five questions. Candidates are strongly recommended to spend approximately two hours on this section.

Question B9.

a)   Define the term Instant Messaging and describe its importance in a business environment.
(4 marks)

b)   Give and describe **TWO** benefits and **TWO** drawbacks of Instant Messaging for business users.
(16 marks)
(Total 20 marks)

Question B10.

A CPU has two main components. A diagram may aid your answer.

a)   What are these two components and how do they work individually and together?
(8 marks)

b)   Registers and Buses are components that work closely with the CPU. Describe how they **BOTH** work and how they help the CPU to function.   (12 marks)
(Total 20 marks)

Question B11.

A legal requirement of any business using the Internet is to protect the data they have stored from Identity Theft.

a)   Define the term Identity Theft.   (4 marks)

b)   Describe **FOUR** ways in which the Head of the IT Department can prevent the theft of **any** data.
(16 marks)
(Total 20 marks)

Question B12.

There are numerous ways in which an organisation can benefit from using a network.

Give and describe **FOUR** reasons why a network may be set up in a business.

(20 mar...)

Question B13.

There are **THREE** basic types of systems software that are essential for a computer to function correctly.

a)   What are the **THREE**
    software components?   (3 marks)

b)   Describe   how   they
    work individually **and** how they work together.   (17 marks)
                                                                                             (Total 20 marks)

END OF EXAMINATION