

National College of Ireland

B.Sc. (Hons) in Computing [BSHC1]
B.Sc. (Hons) in Business Information Systems [BSHBIS1]
Higher Certificate in Computing Applications and Support [HCC1]

B.Sc. (Hons) in Computing [BSHCE1] (Evening)
B.Sc. (Hons) in Business Information Systems [BSHBISE1] (Evening)
Higher Certificate in Computing Applications and Support [HCCE1] (Evening)

Semester II Examinations – 2010/2011

Wednesday 18th May, 2011
6.30pm – 8.00pm

Managerial Foundations of Information Systems

Mr. Tom Nolan
Mr. Ciarán O'Leary
Mr. John Conway
Dr. Eugene O'Loughlin

Answer **ALL** questions in Section A.
Answer **TWO** questions in Section B.

Duration of exam: 1.5 hours
Attachments: None.

Section A (40%) – Answer ALL questions in this section.

1. What are the three main activities that an Information System provides?
(2 Marks)
2. Give two examples of a business process for the Sales & Marketing functional area in a business.
(2 Marks)
3. Using a diagram to illustrate your answer, describe a typical Payroll Transaction Processing System (TPS).
(2 Marks)
4. What is a technical definition of an Organization?
(2 Marks)
5. Using a diagram to illustrate your answer, describe briefly Porter's Competitive Forces Model.
(2 Marks)
6. Describe briefly two ethical issues that are raised by the illegal downloading of music over the Internet.
(2 Marks)
7. What is a "cookie"? What privacy issues are raised by the use of cookies?
(2 Marks)
8. What is Moore's Law?
(2 Marks)
9. What is "Grid Computing"? List one advantage of Grid Computing.
(2 Marks)
10. What is a "Web Service"? Name one example of a Web Service technology.
(2 Marks)
11. What is a "Mashup"? Give one example of a Mashup in action.
(2 Marks)
12. In a database, what is meant by an "Entity"? Give an example of an Entity in a database.
(2 Marks)
13. Assume you have been asked to design a simple database to store information on patients in a Doctor's Clinic. Name six fields that are appropriate to this database.
(2 Marks)
14. What is the difference between a "partitioned database" and a "duplicate database"?
(2 Marks)

15. What is "Business Intelligence"? Give an example of how Business Intelligence software can be used. (2 Marks)
16. Draw a diagram of a simple computer network. What is the purpose of a "Router" in a computer network? (2 Marks)
17. Draw diagrams to represent two different types of network topology. (2 Marks)
18. What is "RFID"? Give an example of RFID in action. (2 Marks)
19. What is "malicious software"? Give one example of a type of malicious software. (2 Marks)
20. What is "Phishing"? Give an example of how Phishing can pose a threat to an individual. (2 Marks)

Section B (60%) – Answer any TWO questions.

21. "*All Information Systems are the same*". Discuss. (30 Marks)
22. What ethical, social, and political (legal) issues are raised by Information Systems? Support your answer with examples. (30 Marks)
23. Describe the capabilities and value of a database management system. Support your answer with examples. (30 Marks)
24. Describe in detail the main security threats faced by Information Systems. Support your answer with examples. (30 Marks)