Final Examination
Semester 2 / Year 2011

COURSE : INTRODUCTION TO INFORMATION TECHNOLOGY
COURSE CODE : CBUS 1023
TIME : 2 ½ HOURS
DEPARTMENT : COMPUTER SCIENCE
LECTURER : DR. LEE ZHI SAM

Student’s ID :
Batch No. :

Notes to candidates:
1) The question paper consists of 4 pages and 20 questions.
2) Answer all questions in section A and B. Answer only 3 questions in section C
3) The full marks for this question paper is 100.
4) Return the question paper with your answer booklet.
Section A: Choose one proper answer for the following questions.
(10 questions X 2 marks = 20 marks)

1. When you are watching movie with your laptop, where does the information temporarily stored?
   A) ROM
   B) RAM
   C) Hardisk
   D) None of Above

2. The program is etched on silicon so it cannot be altered. This is called ________.
   A) software
   B) firmware
   C) hardware
   D) spyware

3. Network is used to ________.
   A) entertain customer
   B) word processing
   C) connect devices together
   D) None of Above

4. What is machine language?
   A) The steps are translated into the vocabulary of a programming language.
   B) Serve as productivity tools to help computer users solve problems
   C) Numeric codes that represent basic computer operations
   D) Resembles languages used by humans.

5. Which of the following answer is not belonging to Web Application?
   A) Facebook
   B) Google
   C) Mozilla Firefox
   D) None of Above

6. Which of the following statement no relevant to the advantages of data compression?
   A) Compresses graphics and video files.
   B) Produce more colorful graphics
   C) Saves storage space
   D) Allows the processor to keep up with the quickly changing frames.

7. Which of the following statement is correct regarding to the advantages of database
   A) Make it easy to organize and reorganize information
   B) Make it easier to store large quantities of information
   C) Make it easier to retrieve information quickly and flexible
   D) All of these statements are true.

8. Which of the following application is not using database?
   A) Google
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B) Facebook
C) Skype
D) Microsoft Word

9. Protocol is ______________.
   A) program that designed to enable several networked users to work on documents at
      the same time
   B) a set of rules for the exchange of data between a terminal and a computer or two
      computers.
   C) one or more computers act as dedicated servers and all the remaining computers act
      as clients.
   D) can deliver fast computer network connections as well as television programs using
      satellite technology.

10. Which of the following is belonging to network?
    i. LAN.
    ii. WAN
    iii. Internet
    iv. Intranet

    A) i, ii, iii
    B) ii, iii, iv
    C) i, iii, iv
    D) i, ii, iii, iv

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Section B: Key terms test questions.

Explain the following key terms which used in information technology.

(5 questions X 4 marks= 20 marks)

1. System BUS:

2. RAM:

3. Resolution:

4. Color Depth:

5. Pixels:
Section C: Short answer questions. Choose any 3 questions to answer.

(3 questions x 20 marks = 60 marks)

**Question 1: (20 marks)**

a) What is the purpose of CPU? (4 marks)

a) Explain what is bit or binary digit? (4 marks)

c) Convert “1010 1111” to decimal number. (4 marks)

d) Do the equation: 1001 1111 + 0011 0011 and convert the answer to decimal number. (4 marks)

e) Convert 49 to 8-bit binary sequence. (4 marks)

**Question 2: (20 marks)**

a) List down the four basic functions of a computer: (4 marks)

b) List down two examples of storage devices and two examples of output devices: (4 marks)

c) Discuss the differences within RAM and ROM? (7 marks)

d) What is interactive multimedia? Give two example of interactive multimedia. (5 marks)

**Question 3: (20 marks)**

a) What is Computer Software? (4 marks)

b) Discuss the differences within machine language and high-level language. (4 marks)
   Give two examples of high level languages. (2 marks)

c) Discuss two examples about the importance of network. (4 marks)

d) Discuss the different within Local Area Network (LAN) and wireless network. [Tips: discuss the concept of what is LAN and wireless network.] (6 marks)

**Question 4:**

4a) What is database? (5 marks)

4b) The IT director of Southern Company wish to develop an inventory database system for JJ hypermarket. You are invited to give your professional suggestion to the director. Please list down four important entities in inventory system. (2 marks)
4c) List down at least three attributes for each entity that you suggested in 4(b). Underline the primary key for each entity (6 marks)

4d) List down three examples of database software you suggested to the director. (3 marks)

4e) In order to let the director understand the importance of database. Please give at least two advantages of database and discuss about it. (4 marks)

Question 5: (20 marks)

a) What is peripheral of the computer system? Give one example of it. (4 marks)

b) What is Operating System (OS)? (4 marks)

c) There are two major types of software which are application software and system software. Discuss the differences within these two types of software are. (4 marks)

d) List down two database operations. (2 marks)

e) What is LAN? Draw a figure to illustrate the concept of LAN. (6 marks)