請勿在本試題紙上作答，否則不予計分

簡答題　每題10分

A.1. Provide one example of a company using the lock in buyers strategy successfully.

A.2. List benefits to renting and using software through the Web, as well as risks.

A.3. Use an empirical example to illustrate in what way do project management tools help project managers?

A.4. What are the advantages, and associated problems, of open source software over proprietary software?

A.5. List imperatives that should be observed when designing Web sites for an international audience.

B1. Multiple-Choice Questions (10%)

i. The HDMI and the _____ ports on a computer facilitate connecting the computer to multimedia devices such as TVs and DVD players.

   A. AVI
   B. USB
   C. Parallel
   D. DVI

ii. The most popular transmission medium option for wired Ethernet networks is:

   A. Fiber-optic cable
   B. Coaxial cable
   C. Unshielded twisted pair cable
   D. Power-Line cable

iii. When an operating system receives an interrupt from the printer and pauses the CPU, it is performing which of the following functions?

   A. User management
   B. Software application coordination
   C. Memory management
   D. Processor management

iv. Web 2.0 describes:

   A. The newest Web development language
   B. A trend of new Web applications that combine the functionality of multiple applications
   C. The newest netiquette rules for group communication
   D. The newest Web browser on the market

v. The purpose of network address translation (NAT) is to:

   A. Convert logical ports to physical port configurations
   B. Hide user IP addresses via an ISP
   C. Dynamically assign IP address via an ISP
   D. Translate IP addresses from the Internet

B2. According to the CEO of Taiwan Semiconductor Manufacturing Company (TSMC) argument: "Smart phone, tablet PC/pad, and cloud computing are hot spots of year 2011," please explain what tablet PC/pad, and cloud computing are respectively (6%) Furthermore, Intel had proposed a new term "Ultrabook" for different product. Please explain what "Ultrabook" is? (3%)

B3. If there is a schema as the following:

Suppliers(sid: integer, sname: char(20), city: char(20))

Supply(sid: integer, pid: integer)

Parts(pid: integer, pname: char(20), price: real)

Please write down a SQL to find the supplier name(sname), product name(pname) and product price(price) that the suppliers locate in Tainan and the part price is lower than 1000. (10%)

B4. iPhone 4S is a new hot product for now. Its new feature is Siri which is a voice commander application. Beside this interface, users normally use finger to control iPhone 4S. Please list *two input* and *two output* devices respectively that could be in iPhone 4S? (8%) Except to iOS used in the Apple's mobile devices, Google is also based on Linux to propose a different operation system for mobile device. Please write down the operation system name in English. (3%)

B5. Please write down a program code to find the max, min number, and the average number in the array data[10][10] whose value is not equal to 0. (Please note that the index in an array starts from 0) (10%)