- A-1. There are three common implementing approaches when developing an information system, which are SDLC, prototyping, and end user computing. Please describe the basic mechanism, pros and cons, and appropriate situations for each approach. Also, for each approach, please explain the necessary tasks, participants, and documents for every specific phase. (15%)
- A-2. E-Commerce (EC) applications have been expanded rapidly since the early 1990s. Please construct a conceptual framework for EC which may include the content of the field of EC and the relationship among its major components (e.g., the major applications, the major support categories, and its infrastructure). (15%)
- A-3. Suppose that you have been working as a CIO in a wholesale company which has six stores located in Taipei, Tauyuan, Hsinchu, Taichung, Tainan, and Kaushong, respectively. Since the major competitor of your company has claimed to build a data warehouse in order to gain a better level of customer service, your vice president asks you to access the necessity and feasibility for having your own data warehouse.
 - (1). Please describe the concept and architecture of the data warehouse and prepare a proposal to show how to implement the project. (10%)
 - (2). Some feasible studies ought to be performed, please describe them. Among them, how do you evaluate the project from the economical perspective, especially by some cost-effectiveness analysis approaches? (10%).

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- B1. What layer does HyperText Transfer Protocol belong to? (5%)
 - (1) Internet

- (2) Transport
- (3) Application

(4) Data link

- (5) None of the above
- B2. Which is the following neural network an unsupervised-learning model? (5%)
- (1) radial basis function network
- (2) probabilistic neural network
- (3) multiplayer perceptrons
- (4) support vector machines
- (5) none of the above
- B3. What is the following statement false for the Java language? (5%)
- (1) A Java application running on UNIX may invoke externally a shell command, such as last and traceroute on the same operating system.
- (2) Multiple inheritance is prohibited
- (3) One may deploy and run a Java compiled code (a Java class file) from a UNIX environment to Microsoft Windows without recompiling.
- (4) None of the above.
- B4. Suppose that you are accessing, via Netscape 4.8 in Unix Solaris 8.0 on Sun Ultra 80, a remote web page which contains a GIF file, a midi file, and a form tag like

<form method= POST action="cgi-bin/welcome.pl">

Then, how many HTTP requests are initiated by the browser? Why? (5%)

- B5. Can one implement an UDP-based HTTP service on the same port, say 8080, where a TCP-based Web server already runs? Why? (5%)
- B6. Both following statements in a HTML hypertext document, stored in an UNIX Apache Web server, can display an image on Microsoft IE 6.0 browser. What is the difference between the following two hyperlinks? (5%)
- (1)
- (2) moon
- B7. "Fuzzy logic offers fuzzy answers. It is not useful for modeling problems that require an exact result." Is this statement true? Defend or criticize it. (7%)
- B8. What are the essential differences between expert systems and case-based reasoning systems? (7%)
- B9. Explain the following keywords in expert systems: (1) conflict resolution (2) heuristics (6%)