1. Explain the following terms. (20%)
   a. UML (Unified Modeling Language)
   b. GIS (Geographic Information Systems)
   c. Web Mining
   d. PKI (Public Key Infrastructure)

2. Write down the definitions and compare their differences for the following questions. (20%)
   a. Web services and CORBA
   b. VAN-based EDI and Internet-based EDI

3. Describe Porter's value chain model and its relationship with SCM (Supply Chain Management). (10%)

4. It is said that drill down will be fully automated. What advantage will such automation give the executive? How can an intelligent agent be used to automate drill down in EIS (Executive Information Systems)? (10%)

5. What is the relationship between the computer-based information systems and EC? (10%)

6. A manager in the financial function obtains a PC and an electronic spreadsheet software package, learn how to use them by using the tutorials, and produce the firm's monthly income statement. Is this an example of EUC (End-User Computing)? Explain your answer. (10%)

7. The Internet can be used to help a company conduct competitive intelligence easily, quickly, and relatively inexpensively in many ways. Describe five ways based on the previous statement. (10%)

8. From the following nine-cell decision support framework combined by Anthony's and Simon's taxonomies and the suggestion proposed by Gorry and Scott Morton, which cell is suitable for the task of "warehouse location"? What kinds of technology support are needed for the task? Explain. (10%)

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