A-1.   Explain two-phased locking in database management.(5%)

A-2.   Explain how neural computing can alleviate some of the limitations of expert systems.(7%)

A-3.   Many organizations integrate information system planning into their overall strategic planning now. What are the key steps of a successful information system planning process? (7%)

A-4.   What are intelligent agents? What is their role in SCM applications? (7%)

A-5.   What is object-oriented analysis and how does it differ from structured analysis? (8%)

A-6.   What is XML? How is it different from HTML? How can it be used to knowledge management? (8%)

A-7.   What is case-based reasoning? Which applications are most suitable for case-based reasoning? Why? (8%)

請務必依序作答於卷上。
答案

B-1. CK Inc. sells business supplies directly to large corporations and wholesales its products to large business supply retailers. CK has asked you to investigate the costs and benefits of developing an electronic data interchange system to connect with its customers. You find that the cost of hardware and software to support this system would be approximately $540,000 the first year, with maintenance costs of $40,000 per year thereafter. Additional training and personnel costs in the IS department are estimated to be $200,000 the first year and $150,000 each year thereafter. Benefits from the system will come from a reduction in the clerical time required to process orders and from improved market share. Since the impact on market share is difficult to quantify, so you must base your quantitative analysis only on the savings in clerical time. CK processes 275,000 orders per year. The processing time that could be saved by the EDI system is 20 minutes per order and the average cost of clerical labor is $12 per order including benefits. Turnover in clerical workers is currently running 40 percent per year. It is expected that the new system would process 20 percent of all orders the first year, 40 percent the second year, and 50 percent in the third and succeeding years. Based on the data described above please compare the costs and benefits of the EDI system over the first 5 years of operation. Use a column for each year and develop total cost and benefit estimates and net benefit for each year based on the information above. (12%)

B-2. What is meant by mobile commerce? Provide two examples available in commercial. (6%)

B-3. What are pure-play business models? Provide two examples to illustrate how they reduced information asymmetry. (6%)

B-4. Briefly describe Windows 2000 and Linux. Draw a table to compare their differences. (6%)

B-5 Identify and briefly discuss three factors affecting chip speed. (6%)

B-6. Briefly describe two most useful solutions to software quality problems. (6%)

B-7. What is an application service provider? Select a specific ASP as an example to illustrate three benefits of using an application service provider for a SME. (8%)