

1. There are two different data formats used in computer graphics: 1. bitmap 2. vectors. Please use some examples to explain their characteristics and their advantages and disadvantages. (10%)
2. Please use examples to explain what a spreadsheet program is and why it is useful. (10%)
3. What are the main purposes of operating system in a computer system? (10%)
4. In the data communications, what is the role of a router? (10%)
5. Draw the configuration diagrams (including a router) of 1. the bus topology 2. the star topology 3. the ring topology, of a local area network. (10%)
6. Please write down the factors that affect the processing speed, with brief explanation. (10%)
7. Please write down the four areas when a disk is formatted in Microsoft Windows 95 system. (10%)
8. Please list 4 different kind of database structure. (10%)
9. Please write down the definition of the DBMS (DataBase Management System) and Database, and their relationship. (10%)
10. What is TCP/IP? How does it work? (10%)