UNIVERSITI SAINS MALAYSIA

Second Semester Examination
Academic Session 1999/2000

February 2000

CSI533 - Design, Installation and Management of Networks

Duration : [3 hours]

INSTRUCTION TO CANDIDATES:

*   Please ensure that this examination paper contains **TEN** questions in **THREE** printed pages before you start the examination.

*   Answer **ALL** questions.

*   You can choose to answer either in Bahasa Malaysia or English.

ENGLISH VERSION OF THE QUESTION PAPER

1. Identify and describe five subobjectives of network management.

    Match each subobjectives with such network management objectives as user satisfaction and cost-effectivness.

    (10/100)

2. Discuss main differences between two Microsoft's network solutions: Windows for Workgroup and Windows NT.

    (10/100)

3. With respect to networking name services:

    (a) Give an example of name hierarchy in relation to the TCP/IP domain system.

    (a) Identify the implication of using such hierarchy in relation to the management of names.

    (10/100)

4. Describe a situation in which it would be beneficial for a network manager to take control of a workstation keyboard.

    Can this make the problem-solving effort more timely and efficient?

    (10/100)

5. List three main methods of attacking networks.

    Describe counter-measures that a network administrator should use against each of the above attacks.

    (10/100)

6. One of the instances of computer crime is intentional destruction of data.

    List two more instances and describe the nature of each.
    What security measures could have prevented these crimes?

    (10/100)

7. With the aid of an Windows NT domain model give examples of how a name is resolved when the closed domain server is:

    (a) a primary domain controller.

    (b) a secondary domain controller.

    Explain your examples.

    (10/100)

8. List four major components in Simple Network Management Protocol, and explain a role of each component.

    (10/100)

9. Discuss the methods, using which data can be changed to ensure security while they are passing:

    (a) inside company's intranet.

    (b) across public WAN.

    (10/100)

10. Discuss the following:

    (a) Factors affecting network security.

    (a) Whether an extranet be made fully secure? If so, explain how.

    (10/100)

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