Answer 6 Questions Only (10 marks for each questions)

Q1: Describe in brief the following Microsoft Network Security Solutions:
   A. Microsoft's Windows 2000 Authentication Scheme.
   B. Microsoft's Windows NT Authentication Scheme.
   C. Windows Firewall (also explains what it does and does not do).

Q2: A. Define the "Intrusion Detection System", and then describe in brief each type of it (Signature-based and Heuristic Intrusion Detection Systems).
   B. Explain in details the Intrusion Detection System's "Stealth Mode" and "False Results".

Q3: Explain in details who the following attack can be done:
   1. Distributed Denial of Service (DDoS) Attack.
   2. Wiretapping (on Cable, Microwave and Optical Fiber Cable).

Q4: Draw the overview figure for "Encrypted E-Mail Processing", and then explain how can get the "Message Confidentiality" and "Message Integrity" requirements for Secure e-Mail.

Q5: Compare between the following:
   1. "Packet Filtering Gateways" and "Application Proxies".
   2. IPsec (Internet Protocol Security) and HTTPs (HTTP Secure).

Q6: A. Describe in details the security involving programs based "Service Problems" (Greedy Programs, Viruses, Bacteria and Worms).

Q7: Define the following:
   1. "Automatic Call-Back" Port Protection
   2. "Silent Modem" Port Protection
   3. "Pad Traffic" Traffic Control
   4. "Routing Control" Traffic Control
   5. "Connectivity" Denial of Service Attack
   6. "Flooding" Denial of Service Attack

- Good Luck -