1. ABC Corporation is a large financial institution that handles sensitive customer information. The organization wants to ensure the security of its systems and prevent potential breaches. To achieve this, they decide to conduct a VAPT assessment.
   David, an ethical hacker, has been hired by the company to conduct a network scanning exercise as part of a system hacking test. The company wants to assess the security standard of its network.

   a) What are the purposes and outcomes of VAPT (3+2)
   b) What are the objectives of network scanning? (2)
   c) Categorize some port scanning techniques based on protocols. (3)

2. "Message digest cannot be reversed"- Explain in your words (5)