

STU2103 Networking Essentials CAT 1 DUE 31/10/25

1. Consider a scenario where a startup is launching an e-commerce platform. Discuss how computer networks play a crucial role in ensuring the platform's reliability, scalability, and security. Highlight the key components and considerations for the network architecture. [10 Marks]

2. Explore the use of computer networks in healthcare information systems. Discuss how networks facilitate the exchange of patient data, support telemedicine, and enhance the efficiency of healthcare delivery. Address security and privacy concerns. [10 Marks]

3. As an IT administrator for a university, outline a case study on how computer networks contribute to the educational environment. Discuss aspects such as campus-wide connectivity, e-learning platforms, and collaborative tools for students and faculty. [10 Marks]