Q.1 Answer the following questions related to Cybersecurity Concepts:
(a) Define and differentiate between symmetric and asymmetric encryption. Provide examples.
(b) Discuss the role of firewalls in network security. How do they prevent cyber threats?
(c) Explain how social engineering attacks work and how to mitigate them.
(d) What is multi-factor authentication (MFA), and why is it important in cybersecurity?
(e) Discuss the implications of ransomware attacks and preventive measures.
[15]