

Question 7

Propose two policy measures an organisation can implement to protect against common data security threats, justifying how each measure enhances security. [4 marks]

[illegible]

Question 8

Describe a secure feature of a Virtual Private Network (VPN) and explain how this feature improves data security during network transmission. [3 marks]

[illegible]

Marking Guide

#	Sample Response	Response	Mark
7	<p>1. Educate Users: Organisations can implement regular training for employees to recognise common data security threats like phishing attempts, suspicious links, and unsafe downloads. This measure enhances security by reducing the likelihood of human error, which is a common cause of breaches.</p> <p>2. Implement Strong Passwords and Multi-Factor Authentication (MFA): Organisations should enforce policies requiring complex passwords and enable MFA for all accounts. This measure enhances security by adding an extra layer of protection, making it significantly harder for attackers to gain unauthorised access even if a password is compromised.</p> <p><i>(Other valid policy measures include: Regular Backups, Restrict User Privileges, Secure Browsing Practices, Incident Response Plan, Data Protection Policies, Penetration Testing, Code Reviews, Assess Vendors, Monitor Supply Chain, Reputable Sources, Comprehensive Plan, Automated/Manual Testing, Version Control, Consistency Checks, Conflict Detection).</i></p>	Names first policy	1
		Justifies first policy	1
		Names second policy	1
		Justifies second policy	1
8	<p>A secure feature of a Virtual Private Network (VPN) is its use of encryption to create a secure, private tunnel for data transmission over public internet connections. VPNs use various protocols like OpenVPN or WireGuard which employ strong, modern security to encrypt the data. This feature improves data security during network transmission because even if an attacker intercepts the data, it remains unreadable without the decryption key, effectively protecting against eavesdropping and man-in-the-middle attacks.</p>	Describes feature (encryption/tunnel)	1
		Names protocols	1
		Explains how it protects transmission	1