

Section 3: Cryptography (Answer ALL questions) [10 marks]

7. What is Cryptography primarily used for?
- b) Securing communication
8. Which of the following is a type of symmetric encryption?
- b) AES
9. Which of these is an asymmetric encryption algorithm?
- c) RSA
10. What is the key difference between symmetric and asymmetric encryption?
- a) Symmetric uses one key; asymmetric uses two keys
11. Which of these is NOT a hashing algorithm?
- c) Blowfish
12. Which cryptographic attack exploits predictable key generation?
- d) Weak key attack
13. Which factor makes an encryption algorithm post-quantum secure?
- c) Resistance to Shor's algorithm
14. Which of the following helps mitigate replay attacks?
- b) Using nonces and timestamps
15. Which algorithm is primarily used for email encryption?
- a) PGP
16. What is a quantum-safe cryptographic algorithm?
- a) An encryption method that is immune to quantum computing attacks