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# **CHAPTER 2: INTRODUCTION TO NUMBER THEORY**

### TRUE OR FALSE

- 1. T
- 2. F
- 3. F
- 4. T
- 5. T
- 6. T
- 7. F
- 8. T
- 9. T
- 10. T
- 10.
- 11. T
- 12. F
- 13. T
- 14. F
- 15. F

# **MULTIPLE CHOICE**

- 1. A
- 2. A
- 3. A
- 4. C
- 5. C
- 6. D
- 7. B
- 8. B
- 9. C
- 10. A
- 11. B
- 12. A
- 13. D
- 14. C
- 15. A
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Cryptography and Network Security: Principles and Practice,  $8^{\text{th}}$  Edition, by William Stallings

# **SHORT ANSWER**

- 1. residue
- 2. Euclidean
- 3. modulus
- 4. Euler's
- 5. Fermat's
- 6. relatively prime
- 7. Euler's totient
- 8. Chinese Remainder
- 9. prime
- 10. Diffie-Hellman key exchange
- 11. logarithm
- 12. one (1)
- 13. prime
- 14. AKS
- 15. Congruences