**Chapter 4: Basic Concepts in Number Theory and Finite Fields**

**TRUE OR FALSE**

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

**MULTIPLE CHOICE**

1. D
2. A
3. A
4. B
5. A
6. C
7. C
8. B
9. A
10. C
11. B
12. D
13. D
14. C
15. B

**SHORT ANSWER**

1. residue
2. Euclidean
3. modulus
4. monic
5. Modular
6. Advanced Encryption Standard (AES)
7. integral
8. Galois
9. prime
10. constant
11. irreducible
12. greatest common divisor
13. modulus
14. generator
15. root