

ECC Practice Test Questions and Answers

1. What is the primary advantage of Elliptic Curve Cryptography (ECC) over RSA?

- A) ECC uses longer key lengths for equivalent security
- B) ECC provides equivalent security with shorter key lengths and better performance
- C) ECC is less secure but faster to implement
- D) ECC requires more computational resources than RSA

2. Which mathematical concept forms the foundation of ECC?

- A) Prime factorization of large numbers
- B) Discrete logarithm problem over elliptic curves
- C) Integer square root calculations
- D) Polynomial division algorithms

3. What ECC key size provides security equivalent to a 2048-bit RSA key?

- A) 1024-bit ECC key
- B) 512-bit ECC key
- C) 224-bit ECC key
- D) 128-bit ECC key

4. Which protocol commonly uses ECC for secure key exchange?

- A) FTP (File Transfer Protocol)
- B) ECDH (Elliptic Curve Diffie-Hellman)
- C) SMTP (Simple Mail Transfer Protocol)
- D) DNS (Domain Name System)

Answers: 1-B 2-B 3-C 4-B

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