EUROPEAN INFORMATION TECHNOLOGIES CERTIFICATION INSTITUTE, ASBL.

Brussels, Belgium, European Union

CERTIFICATE

Karim Beshtawi

Has successfully completed test requirements of
The European Information Technologies Certification Programme

EITC/IS/ACC Advanced Classical Cryptography

Certification Programme examination result: 66.67%

Certification Programme description:

Diffie-Hellman cryptosystem: Diffie-Hellman key exchange and the discrete log problem; generalized discrete log problem and the security of Diffie-Hellman; Encryption with Discrete Log Problem: Elgamal encryption scheme; Elliptic Curve Cryptography: introduction to elliptic curves, elliptic curve cryptography (ECC); Digital Signatures: digital signatures and security services, Elgamal digital signature; Hash Functions: introduction to hash functions, SHA-1 hash function; Message Authentication Codes: MAC (Message Authentication Codes) and HMAC; Key establishing: symmetric Key Establishment and Kerberos; Man-in-the-middle attack: man-in-the-middle attack, certificates and PKI

Certificate Programme version/revision: EITC/IS/ACCv1r1

CERTIFICATE ID: **EITC/IS/ACC/FXR24004765**

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