

# Question Paper

Exam Date & Time: 24-Nov-2018 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

FIRST SEMESTER MASTER OF ENGINEERING - ME (INTERNET OF THINGS)

**IoT Security [IOT 607]**

**Marks: 100**

**Duration: 180 mins.**

### END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

**Answer all the questions.**

- 1) Illustrate the security life cycle of IoT. Explain Dispose phase in detail. (10)
- 2) Define Public Key Infrastructure (PKI) and pictorially illustrate the PKI architectural model. (10)
- 3) Explain Data Encryption Standard. (10)
- 4) Define cryptography. Explain the following cryptography terminologies: Plain text, Cipher text, Encryption, Decryption, Key, Cryptographic Algorithm, Digital signatures. (10)
- 5) Define Distributed Denial of Service Attack (DDoS) and explain any five types of DDoS. (10)
- 6) Explain typical attack categories against enterprise IoT components. (10)
- 7) What is SQL Injection and explain five attack types for SQL Injection. (10)
- 8) What is wormhole; explain its attack model and type. (10)
- 9) What is a crypto currency wallet and describe five types of crypto currency wallet. (10)
- 10) With a scenario pictorially illustrate the problem with digital currency and show how Blockchain solve this problem. (10)

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