

Roll No .....

**MTCF-302 (B)**

**M.E./M.Tech., III Semester**

Examination, June 2016

**Security Threats and Modeling**

*Time : Three Hours*

*Maximum Marks : 70*

- Note:** i) Attempt any five questions.  
 ii) All questions carry equal marks.

1. a) What is Threat Modeling? Briefly give strategies for Threat Modeling. 7  
 b) Explain Trust Boundaries. 7
2. a) Explain Repudiations Threats. 7  
 b) Explain Tampering with Memory and Network. 7
3. a) Explain in details the concept of Authentication in Mitigating Spoofing. 7  
 b) How the CAPEC Threats are addressed? 7
4. a) List Threat Modeling Tools. Explain all General useful tools. 7  
 b) What is Cloud Tenant Threats? Explain its types (any three). 7

5. a) Explain Key management with respect to Building Cryptosystem. 7  
 b) List various modern Cryptographic Primitives. Explain. 7
6. a) What is DFD? List its various elements. Explain. 7  
 b) With the help of diagram explain trust boundaries in a web server. 7
7. a) Explain techniques of Repudiation attacks. 7  
 b) Explain various Tampering Threats. 7
8. Write short notes on (any four) : 14
  - a) Information Disclosure
  - b) Denail-of-Service
  - c) Elevation of Privilege Threats
  - d) Spoofing
  - e) Tampering
  - f) Repudiation

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