Enrollment No.....

## Master of Technology Third Semester Main Examination, December 2021 Secure Software Engineering [MTCYS301(1)]

#### Time: 3:00 Hrs

Max Marks 70

### Note: 1. Attempt any five questions. 2. All question carry equal marks.

- Q.1 What is software engineering? discuss principles of software engineering.
- Q.2 Discuss in brief all steps necessary for an effective requirement analysis.
- Q.3 What is the difference between functions? And structural testing? explain any two fictional testing technique.
- Q.4 What are the difference between functional and structural testing? Explain any two functional structural testing techniques.
- Q.5 Explain how to setting system failure intensity objectives.
- Q.6 Explain UML diagrams for security requirements?
- Q.7 What are different software design approaches an software engineering? What do you mean by good software design?
- Q.8 Write short notes (Any two) i) Fault tolerance
  - ii) User interface design
  - iii) Exception handing.

Enrollment No.....

### Master of Technology Third Semester Main Examination, December 2021 Security Threats And Modeling [MTCYS302(1)]

#### Time: 3:00 Hrs

Max Marks 70

# Note : Attempt any five questions out of eight. All questions carry equal marks.

- Q.1 (a) What is Threat Modeling? Briefly give strategies for Threat Modeling. also explain the trust boundaries.
- Q.2 (a) Explain Trust Boundaries(b) Explain Tampering with Memory and Network.
- Q.3 (a) How the CAPEC thread are addressed ?(b) Explain in detail the concept of Authentication in Mitigating Spoofing.
- Q.4 What is cloud tenant thread? Explain its types all.
- Q.5 List thread models tools, Explain all general useful tools.
- Q.6 (a) What is DED List its various elements . Explain ?(b) With the help as diagram explain thrust boundaries in a web server .
- Q.7 (a) Explain techniques of repudiation attacks.(b) Explain various tampering threads.
- Q.8 Write short note on :- (Any four )
  - i) Denial of serine.
  - ii) Spoofing
  - iii) Tampering
  - iv) repudiation
  - v) elevation of privilege threats