

Master of Technology
Third Semester Main Examination, Dec-2020
Secure Software Engineering [MTCYS301(1)]

Time: 3:00 Hrs

Max Marks 70

Note: 1. Attempt any five questions out of eight.
2. All question carry equal marks.

- Q.1 Discuss various concepts of Software Engineering.
- Q.2 Write note on secure coding in C and C++.
- Q.3 Explain about secure assurance and testing.
- Q.4 Describe the categories of software testing.
- Q.5 Explain attacking through the User Interface.
- Q.6 Explain threat modeling, its concerned properties and necessary mitigations
- Q.7 Explain attacking through the User Interface.
- Q.8 Describe the following secure testing methodologies.
 - (i) Attacking Methodologies.
 - (ii) Attacking Design.
 - (iii) Practice for developing of high assurance code.

Master of Technology
Third Semester Main Examination, Dec-2020
Security Threats And Modeling [MTCYS302(1)]

Time: 3:00 Hrs

Max Marks 70

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- Q.1 Explain secure socket layer SSL With the help of diagram.
- Q.2 Write short note on the following
 - (i) Criminal act
 - (ii) RFC 5322
 - (iii) Host security
 - (iv) Key management
- Q.3 Explain the frame works and the impact on internet security.

- Q.4 Prove how the security at the application layer is confirmed through PGP and S/MIME.
- Q.5 Define the term Cryptography, Authentication, Authorization and integrity.
- Q.6 Briefly Discuss SSH protocol using diagram of the SSH protocol stack. For what application SSH useful.
- Q.7 Explain the architecture of IP security in details.
- Q.8 How IP section can be used to create VPN?
- Q.9 Enumerate the security problem in web. How it can be avoided? Explain any one sample problem.