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Roll Number: _____

Thapar University, Patiala
Department of Computer Science & Engineering
AUXILIARY EXAMINATION

B. E. (Third Year)

Course Code: UCS638

Course Name: SECURE CODING

August 16, 2022

Wednesday, 17.30 – 19.30 Hrs.

Time: 2 Hours, M. Marks: 50

Name Of Faculty: Gurpal Singh Chhabra

**Note: Attempt all questions and
Assume missing data, if any, suitably**

Q.1a)	Explain the difference between Active and Passive Security Attacks, using suitable example and diagram.	(05)
Q.1b)	Why do we need to secure the code? Explain Secure Software Development Cycle (SSDLC),	(05)
Q.2	Write a short note on (with suitable example): a. Vulnerability b. Key loggers c. Exploit d. Cross site request forgery	(10)
Q.3	What is Race Condition Vulnerability? How can we exploit it? Also list down the counter measures of race condition problem.	(10)
Q.4a)	What is PE Code Injection? Explain its process in detail.	(05)
Q.4b)	Explain the process of identifying the threats by using attack trees and rating threats using DREAD?	(05)
Q.5a)	Explain the concept of Distributed denial of service attack, using suitable diagram/example.	(05)
Q5b)	How is SQL injection done in a real-time environment? Explain it with the help of suitable diagram/Code.	(05)

Answer Sheets would be shown on August 17, 2019, 04:30 pm, L-527 (CS building).