MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
A Constituent Institution of Manipal University

VII SEMESTER B.TECH. (COMPUTER SCIENCE & ENGINEERING) DEGREE MAKEUP EXAMINATION-NOV/DEC 2017
SUBJECT: INFORMATION SECURITY (CSE 4014)
REVISED CREDIT SYSTEM
(30/12/2017)

Time: 3 Hours   MAX. MARKS: 50

Instructions to Candidates:

❖ Answer **ALL** the questions.

❖ Missing data may be suitably assumed.

1A.	Draw a neat diagram and explain SDLC waterfall methodology.	4M
1B.	What is pharming? How is it different from timing attack?	2M
1C.	Explain the various means by which an attacker tries to find out the password.	4M
2A.	Explain the different approaches to intrusion detection.	4M
2B.	Explain state of the art in worm technology.	3M
2C.	Draw a neat diagram and explain application level gateway.	3M
3A.	Explain the security requirements of database systems. Describe the various factors that make data sensitive.	5M
3B.	Explain the following: i. Integrity Lock ii. Controls for statistical inference attacks	5M
4A.	Draw a neat diagram and explain SSL Record protocol operation. Explain any four fatal alert messages supported by TLS only.	5M
4B.	Explain the various PGP services.	5M
5A.	Explain the following: i. Benefits of IPSec ii. Basic combinations of security associations	4M
5B.	Explain the different ways of executing cybercrimes.	4M
5C.	Explain why computer crime is hard to prosecute.	2M

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