Deg No					
Reg. No.					



**ANIPAL INSTITUTE OF TECHNOLOGY** 

MANIPAL (A constituent unit of MAHE, Manipal)

## VII SEMESTER B.TECH. (COMPUTER SCIENCE & ENGINEERING) DEGREE MAKEUP EXAMINATION-DEC 2018 SUBJECT: INFORMATION SECURITY (CSE 4014) REVISED CREDIT SYSTEM (31/12/2018)

Time: 3 Hours

MAX. MARKS: 50

## Instructions to Candidates:

- ✤ Answer ALL the questions.
- Missing data may be suitably assumed.
- 1A. What is CNSS security model? Explain the multiple layers of security that 4M are needed for an IT company.
- 1B. Explain any three technical threats and any three non-technical threats to 3M information security.
- 1C.Explain the following:3Mi. Trojan Horseii. Mail Bombingiii. Social Engineering
- 2A. Explain the classification of intruders based on behavior patterns. 3M
- 2B. Draw a neat diagram and explain a digital immune system. 4M
- 2C. What is a firewall? What are its capabilities? 3M
- 3A. What are the advantages of using databases? Explain the security 5M requirements of database systems.
- 3B. Explain the different designs of multilevel secure databases. 5M
- 4A. Give the classification of web security threats. Along with a neat diagram 4M explain SSL record protocol operation. Write the SSL record format.
- 4B. Draw a neat diagram and explain PGP compression by taking a suitable 3M example. Calculate the compression ratio.

4C.	Explain security association database.				
5A.	Explain IPSec services.	3M			
5B.	Define cybercrime. Explain the different ways in which cybercrime is carried out.	4M			
5C.	Explain how to deal with rising tide of cybercrimes.				

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