

**M. TECH. –III (COMPUTER ENGINEERING) (CBCS – 2015
COURSE) : SUMMER - 2018
SUBJECT : ELECTIVE – I: CYBER SECURITY**

Day : **Tuesday**
Date : **29/05/2018**

S-2018-3046

Time : **11.00 AM TO 02.00 PM**
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SEPARATE** answer books.

SECTION – I

Q.1 What is confidentiality and integrity? Describe the ways of achieving it. **[10]**

OR

Q.1 Explain how public keys and private keys are generated using RSA algorithm with suitable example. **[10]**

Q.2 What are the different types of proxy servers? Explain their uses. **[10]**

OR

Q.2 What is Mobile Malicious Code? How does it work? **[10]**

Q.3 What is SQL injection attack? How can you prevent SQL injection? **[10]**

OR

Q.3 How does race condition occurs? What causes race around vulnerabilities? How to explain them? **[10]**

SECTION – II

Q.4 Define impersonation. What is token kidnapping? **[10]**

OR

Q.4 How Man in the middle attack can work against the Diffie-Hellman key exchange algorithm? **[10]**

Q.5 Explain the framework for the extraction and analysis of digital forensic data from volatile system memory. **[10]**

OR

Q.5 Describe statistical anomaly detection and rule based detection. How Honey pots are used in intrusion detection system? **[10]**

Q.6 How many addresses can IPV6 hold? Describe IPV6 address space and improved security features. **[10]**

OR

Q.6 Discuss cyber security and internal political security. **[10]**

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