

**M. TECH. –III (COMPUTER ENGINEERING) (CBCS – 2015
COURSE) : WINTER - 2017
SUBJECT : ELECTIVE – I: CYBER SECURITY**

Day : **Tuesday**
Date : **16/01/2018**

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

W-2017-2852

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 are the key principles of security? Explain with suitable examples. **[10]**

OR

Q.1 Explain the steps to create a security policy on a Windows server and enabling firewall on Windows system. **[10]**

Q.2 Explain local and remote port forwarding with secure shell tunneling. **[10]**

OR

Q.2 What is proxy server? Explain how content filtering web proxy server provides administrative control in organization. **[10]**

Q.3 What are the differences between brute force attack and dictionary attack? Give real world examples. **[10]**

OR

Q.3 What are active and passive Reconnaissance attacks? Explain ping sweep. **[10]**

SECTION – II

Q.4 How to create Obfuscation Virtual Machines and protect them from attacks? **[10]**

OR

Q.4 What are different types of rootkits? How can rootkit hypervisors affect operating system security? **[10]**

Q.5 Why RAM analysis is important while doing memory forensic? How it is carried out? **[10]**

OR

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

Q.6 Will IPV6 end cyber-attacks in the future? What are privacy concerns? **[10]**

OR

Q.6 What is cyber warfare? Describe Sun Tzu military strategy known as Art of War. **[10]**