

M.Sc. (Computer Science)-II (with Credits)-Regular-Semester 2012 Sem IV (Old)
MSC241233-Elective Paper-III : Cyber Security

P. Pages : 2

Time : Three Hours



GUG/S/18/5733

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answers related to questions.

1. Either

- a) What is the need for Internet Security? Explain the strategies for a secure Network. **8**
- b) Explain following in detail. **8**
- i) Security Threats and levels. ii) Security Plan.

OR

- c) Explain following in detail. **8**
- i) Social Engineering. ii) Authentication Failure.
- d) Explain about Denial-of-Service-Attacks and Active Attacks. **8**

2. Either

- a) What is virus? Explain how to protect system against virus in detail. **8**
- b) What do you mean by Firewalls? Explain different Kinds of firewalls. **8**

OR

- c) Explain the distributed Firewalls and Firewall Engineering. **8**
- d) Explain following in detail: **8**
- i) Firewall Problems
- ii) Firewall Testing.

3. Either

- a) What do you mean by Authentication? Explain following in detail: **8**
- i) Smart Cards.
- ii) Biometrics.
- b) Explain Network Administration Tools and Chroot - Caging suspect software. **8**

OR

- c) Explain in detail about a simple Anonymous FTP Daemon in detail. **8**
- d) Explain in detail about: **8**
- i) Taming Named
- ii) Adding SSL support with Sslwrap.

- 4. Either**
- a) Define cryptography. Explain the secret key cryptography in detail. **8**
 - b) Explain Exponential key Exchange and secure Hash Functions in detail. **8**
- OR**
- c) What do you mean by VPN? Explain VPN Threats and Exploits in detail. **8**
 - d) Explain following in detail. **8**
 - i) Hardware and software VPN.
 - ii) Differences between Layer 2 and Layer3 VPN.
- 5. Solve all the questions.**
- a) Write short note on Denial of services Attacks. **4**
 - b) Discuss in short about packet Filters. **4**
 - c) What do you mean by Mail Transfer Agents? Discuss in short. **4**
 - d) Write short note on POP3 and IMAP. **4**
