

M.C.A. - III (C.B.C.S. Pattern) Sem-V
PSMCAT502 - Digital Cyber Security Paper-II

P. Pages : 2

Time : Three Hours



GUG/S/19/11117

Max. Marks : 80

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

- 1.** Either
- a) What do you mean by internet security? Explain different strategies for a secure Network. **8**
 - b) Explain different security threats and Levels in detail. **8**

OR

- c) Explain following in detail: **8**
 - 1) Authentication failures.
 - 2) Protocol Failures.
- d) What do you mean by Exponential Attacks? Explain about virus and Denial - of - service Attacks. **8**

- 2.** Either
- a) Explain the structure of virus and the protection against virus in detail. **8**
 - b) What is firewall? Explain the necessity and need of firewall in detail. **8**

OR

- c) Explain following in detail: **8**
 - 1) Circuit-Level Gateways.
 - 2) Dynamic packet filters.
- d) Explain different firewall problems and their testing in detail. **8**

- 3.** Either
- a) What do you mean by Authentication? Explain RADIUS and Biometrics in detail. **8**
 - b) Explain Ined-Network services and Ssh-Terminal in detail. **8**

OR

- c) Write in detail about:- 8
- 1) Chroot-caging suspect software
 - 2) Aftpd-A simple Anonymous FTP Daemon.

- d) What do you mean by Samba? Explain SMB implementation in detail. 8

4. Either

- a) Explain in detail:- 8
- 1) Secret - key cryptography
- b) What do you mean by Digital Signature? Explain secure Hash functions in detail. 8

OR

- c) Define VPN. Explain the Advantages and Disadvantages of VPN in detail. 8
- d) Explain in detail about: 8
- 1) Authentication and Authorization.
 - 2) Hardware and software VPN.

5. Solve all the Questions.

- a) Write short note on Active Attacks. 4
- b) Write a note on Distributed Firewalls. 4
- c) Write short note on Smart Cards. 4
- d) Discuss in short about VPN Threats and Exploits. 4
