

M.C.A.- II (Two Years Programme) (New CBCS Pattern) Semester - III
PMCAT302 - Paper-II : Digital Cyber Security

P. Pages : 2

Time : Three Hours



GUG/S/23/13648

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagrams wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.

Either:

1. a) What is Internet Security? Explain different Strategies for a Secure Network in detail. **8**
b) Discuss in brief about Classes of Attacks. **8**

OR

- c) What is Social Engineering? Explain Security Threats and Levels in brief. **8**
d) List and Explain Exponential Attacks. **8**

Either:

2. a) What is Virus? Explain Structure of virus in detail. **8**
b) Discuss in brief about Firewall Engineering. **8**

OR

- c) What is Firewalls? List and Explain different kinds of Firewalls. **8**
d) Describe Firewall problems and Testing Firewalls. **8**

Either:

3. a) What is Authentication? Explain Host-to-Host authentication in detail. **8**
b) Discuss in brief about Chroot-Caging Suspect Software. **8**

OR

- c) Write short notes on: **8**
i) Taming Named
ii) POP3 and IMAP.
d) Define Adding SSL Support with Sslwrap. **8**

Either:

4. a) What is Cryptography? Explain Modes of operation of Cryptography in detail. 8
- b) Discuss in brief about Basic Encryption and Decryption in Cryptography. 8

OR

- c) What is VPN? Give the Advantages and disadvantages of VPN. 8
- d) Explain VPN Authentication and Authorization in detail. 8
5. Attempt **all** the questions.
- a) Explain in brief about Bugs and Backdoors. 4
- b) What are the Proxies in Firewall Engineering? Explain. 4
- c) Explain in brief about Network Administration tools. 4
- d) Give the difference between Layer2 and Layer3 VPN. 4
