

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

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- 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:

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| 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

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|-----------|----|--|----------|
| | 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 |
