

M.C.A. - II (2 Years) New CBCS Pattern Semester-III
PMCAT302 - Paper-II : Digital Cyber Security

P. Pages : 2

Time : Three Hours



GUG/W/23/13648

Max. Marks : 80

- 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 points/answers related to questions.

Either:

1. a) What is social engineering? Explain security threats and levels in brief. **8**
b) Write the Introduction to Internet security and Explain the need for internet security. **8**

OR

- c) Explain different strategies for a secure Network in detail. **8**
d) What do you mean by Exponential Attacks? Explain the Denial-of-service Attacks in detail. **8**

Either:

2. a) Explain the following- **8**
i) Trojan Horses
ii) Worms
b) What is virus? Explain structure of virus in detail. **8**

OR

- c) Write and explain Building a firewall from scratch in detail computers. **8**
d) What is firewalls? List and explain different kinds of Firewalls. **8**

Either:

3. a) What is Authentication? Explain Host-to-Host authentication in detail. **8**
b) Explain Ssh-Terminal & Syslog in detail. **8**

OR

- c) Write short notes on- **8**
i) Taming Named
ii) POP 3 and IMAP
d) Explain the following- **8**
i) Network Administration Tools
ii) Tailing the Apache & web server

Either:

4. a) Write the introduction to VPNs and explain the Advantages and Disadvantages of VPN. 8
b) What is cryptography? Explain modes of operation of cryptography in details. 8

OR

- c) What do you mean by VPN Authentication and Authorization? Explain in detail. 8
d) Explain secret – key cryptography in detail. 8
5. Attempt **all** questions.
- a) What do you mean by stealing passwords? Explain. 4
b) What are the proxies in firewall engineering? Explain. 4
c) Write note on chroot- caging suspect software. 4
d) Give the difference between Layer 2 and Layer 3 VPN. 4
