

M.C.A.- II (Two Year Programme) (NEW / CBCS Pattern) Sem-III
PMCAT302-Paper-II : Digital Cyber Security

P. Pages : 2

Time : Three Hours



GUG/W/22/13648

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) Write the Introduction to Internet Security and explain the Need for Internet Security. **8**
- b) Explain the following: **8**
 - i) Stealing Passwords
 - ii) Bugs and Backdoors.

OR

- c) What do you mean by Exponential Attacks? Explain the Denial – of – Service – Attacks in detail. **8**
- d) Write and explain the Security Plan (RFC 2196) in detail. **8**

Either:

2. a) Explain the following: **8**
 - i) Trojan Horses
 - ii) Worms
- b) What do you mean by Firewalls? Explain any two kinds of Firewalls in detail. **8**

OR

- c) Write and explain Building a Firewall from Scratch in detail. **8**
- d) What are the Firewall Engineering Rule Sets? Write and explain them. **8**

Either:

3. a) What do you mean by Authentication? Explain Host – To – Host Authentication in detail. **8**
- b) Write the detailed note on Ssh – Terminal and File Access. **8**

OR

- c) Explain the following. **8**
 - i) Network Administration Tools
 - ii) Jailing The Apache Web Server

d) What do you mean by POP3 and IMAP? Explain each in detail. 8

Either:

4. a) Write the Introduction to VPNs and explain the Advantages and Disadvantages of VPN. 8

b) What do you mean by Cryptography? Explain Secret – Key Cryptography in detail. 8

OR

c) What do you mean by VPN Authentication and Authorization? Explain in detail. 8

d) Explain the following: 8

i) Digital Signature

ii) Secure Hash Functions.

5. Attempt all questions.

a) What do you mean by Stealing passwords? Explain. 4

b) Explain the Trojan Horses. 4

c) Write a note on Chroot – Caging Suspect Software. 4

d) Write the Differences between Layer2 and Layer3 VPNs 4
