

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

P. Pages : 2

Time : Three Hours



GUG/S/25/13648

Max. Marks : 80

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

Either:

1. a) Explain the Need for Internet Security in detail. **8**
b) Explain Exponential Attacks in detail. **8**

OR

- c) Discuss security threats levels in detail. **8**
d) Explain the following. **8**
i) Bugs and Backdoors.
ii) Information Leakage.

Either:

2. a) Write a note on: **8**
i) Structure of virus
ii) Worms and Bombs.
b) What is Firewalls? Explain Distributed Firewalls in detail. **8**

OR

- c) How to protect against virus? Explain in detail. **8**
d) Write a short note on Application Level filtering. **8**

Either:

3. a) Explain following protocol in detail. **8**
i) RADIUS
ii) SALS.
b) What are the benefits of using biometrics for authentication. **8**

OR

- c) Discuss Network Administration. **8**
d) Explain Ined - Network services in detail. **8**

Either:

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|-----------|----|--|----------|
| 4. | a) | What do you mean by cryptography? Explain public key cryptography. | 8 |
| | b) | Explain Advantages and Disadvantages of VPN. | 8 |

OR

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|-----------|----|--|----------|
| | c) | Explain Basic Encryption and Decryption in detail. | 8 |
| | d) | Give difference between Layer 2 and Layer 3 VPNs. | 8 |
| 5. | | Solve all the questions. | |
| | a) | Write a note on Botnets. | 4 |
| | b) | Explain Dynamic packet Filters. | 4 |
| | c) | What do you mean by Host-To-Host Authentication. | 4 |
| | d) | Explain hardware and software requirement for VPN. | 4 |
