

M.SC. - II (Computer Science) Fourth Semester OLD  
**MSC241233 - Elective-III - Cyber Security Paper-3.3**

P. Pages : 2

Time : Three Hours



**GUG/W/18/2353**

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 answer and write specific answers related to questions.

- 1.** Either
- a) Explain the important strategies to be considered for securing Network. **8**
  - b) What is security plan? Explain the RFC2196 security plans in detail. **8**

**OR**

- c) Write in brief About the security threats And levels. **8**
  - d) Write a brief note on important exponential Attacks. **8**
- 2.** Either
- a) Define virus. Explain the structure of virus And how to provide protection Against Virus? **8**
  - b) How to build firewall from scratch? Explain firewall problems And testing firewalls. **8**

**OR**

- c) Define firewall, Explain circuit level gateways with suitable illustration. **8**
  - d) What is firewall Engineering? Explain the Rules sets to be considered in firewalls. **8**
- 3.** Either
- a) Define Authentication? Explain Important tools And services can be used while defining Authentication. **8**
  - b) What is Aftid ?Explain the important mail Transfer agents. **8**

**OR**

- c) What is samba? Explain how to add SSL support with SSL wrap. **8**
  - d) Write a brief note on Network Administration tools. **8**
- 4.** Either
- a) What is secret – key cryptography? Explain the exponential key exchange in brief. **8**
  - b) Define Notation. Explain the Modes of operation of cryptography in detail. **8**

**OR**

- c) Differentiate between Layer 2 and Layer 3 VPN's with suitable example. 8
- d) Write a short notes on: 8
- i) Personal & Network VPN's
  - ii) Hardware & software VPN's

5. Solve all questions.

- a) Write short note on: 4
- i) Botnets.
  - ii) Backdoors.
- b) Write a short note on : 4
- Trojan Horse.
- c) Write a short note on smart cards. 4
- d) Write a short note on digital signature. 4

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