

Master of Computer Application (MCA-II) Third Semester (Old)
MCA233 - Cyber Security Paper - III

P. Pages : 2

Time : Three Hours



GUG/W/18/2128

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/answer related to questions.

1. Either:

- | | |
|--|---|
| a) What is security threat? Explain levels of security threats. | 8 |
| b) Write a note on: | 8 |
| <div>i) Protocol Failures</div> <div>ii) Information Leakage</div> | |

OR

- | | |
|--|---|
| c) What is Authentication Failure? Explain difference DOS and DDOS attack. | 8 |
| d) Describe Internet Security. What is the need of Internet Security? | 8 |

2. Either:

- | | |
|---|---|
| a) What is Distributed Firewall? Explain with illustration. | 8 |
| b) Write a note on: | 8 |
| <div>i) Trojan Horses</div> <div>ii) Worms</div> | |

OR

- | | |
|---|---|
| c) What are firewall problems? Explain testing methods of firewall. | 8 |
| d) Define Virus. Explain Structure of Virus. | 8 |

3. Either:

- | | |
|--|---|
| a) Distinguish between POP3 and 1MAP with example. | 8 |
| b) What is Biometrics? Explain different biometrics used for security. | 8 |

OR

- | | |
|--|---|
| c) Explain with example. | 8 |
| <div>i) Host-to-Host Authentication</div> <div>ii) PKI</div> | |
| d) What is the use of Network Administration tools? Explain any two tools. | 8 |

4. Either:
- a) What is VPN? Explain Advantages and Disadvantages of VPN. 8
 - b) Distinguish between static and Dynamic packet filters with examples. 8
- OR**
- c) Explain with example. 8
 - i) VPN Threats and Exploits
 - ii) Public key Cryptography.
 - d) Explain Exponential key exchange using Diffie-Hellman Algorithm. 8
5. Solve all the questions.
- a) How we can prevent staling of password attack. 4
 - b) Write down steps for building firewall. 4
 - c) Explain adding SSL Support with SSL wrap. 4
 - d) Describe Secure Hash functions with example. 4
