Hall Ticket Number:

IV/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION

November, 2019   **Information Technology**
Seventh Semester   **Advanced Cyber Security**
Time: Three Hours   Maximum: 60 Marks

Answer Question No.1 compulsorily.   (1X12 = 12 Marks)

Answer ONE question from each unit.   (4X12=48 Marks)

1. Answer all questions   (1X12=12 Marks)
    a) List Hacking Phases
    b) List any one objective of Network Scanning
    c) What is Permanent DoS attack?
    d) Why hub is insecure for communication?
    e) What is the significance of Address Resolution Protocol?
    f) What is the difference between Spoofing and Hijacking?
    g) What is the significance of DHCP?
    h) What is the difference between IP and MAC address?
    i) List any two techniques to distribute Malware .
    j) What is MAC flooding?
    k) Name any one popular tool for network sniffing.
    l) What is the main difference between Virus and Worm?

UNIT I

2. a) How network scanning can be done using Nmap.   6M

    b) Write about Footprinting.   6M
                                    (OR)
3. a) Write about SMTP Enumeration and DNS Zone Transfer Enumeration. 6M
    b) Describe different classes of Hackers.   6M

UNIT II

4. a) Write about Rootkit.   6M
    b) Write about Virus and Worm.   6M
                                    (OR)
5. a) Describe online password cracking technique.   6M
    b) Describe offline password cracking technique.   6M

UNIT III

6. a) Write about DHCP starvation attack.   6M
    b) Write about Internet DNS spoofing attack.   6M
                                    (OR)
7. a) Compare WEP and WPA authentication protocols   6M
    b) Write about rogue DHCP service attack.   6M

UNIT IV

8. a) Describe Cross-Site Scripting.   6M
    b) Describe Cross-Site Request Forgery.   6M
                                    (OR)
9. a) Describe SQL injection attack on a web application to bypass authentication.   6M
    b) Describe Buffer overflow attack.   6M

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