

Roll No.

Total No. of Pages : 01

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M.Tech.(IT) (E4) (2015 & Onwards) (Sem.-3)
NETWORK SECURITY AND ETHICAL HACKING

Subject Code : MTIT-304

Paper ID : [74155]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

Q1 What is Ethical Hacking? Give a detailed description of the phases involved in ethical hacking. Also, discuss the relationship of penetration testing with ethical hacking.

Q2 Describe the importance of foot printing in the methodology of information gathering of the hackers. Also, discuss active and passive reconnaissance.

Q3 Briefly, outline, port scanning techniques and the process to identify the TCP and UDP services that are running on a target network.

Q4 a) Discuss, in detail, the various methods of password cracking and role of key loggers in network security protocols.

b) Explain DNS and IP sniffing and their impact on network security.

Q5 a) What is session hijacking and its various types? Differentiate hijacking with spoofing.

b) Elaborate the framework and functionality of a session hijacking tool.

Q6 a) How is wireless network traffic sniffed? Discuss the wireless DoS attack in detail.

b) What is the role of eavesdropping and key loggers in network security? Describe ARP spoofing process in detail.

Q7 a) Explain, with the help of an example, active and passive sniffing.

b) What is a Trojan virus? Describe the Trojan types and outline different ways to indicate Trojan's entry into a system.

Q8 Write short notes on the following :

a) HTTPS Sniffing

b) WLAN Scanners