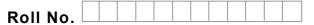


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M.Tech.(IT) (E4) (2015 & Onwards) (Sem.-3) NETWORK SECURITY AND ETHICAL HACKING Subject Code :MTIT-304 Paper ID : [74155]

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

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