

Code No: 825AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA V Semester Examinations, December - 2019****ETHICAL HACKING****Time: 3 Hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**5 × 5 Marks = 25**

- 1.a) What are the common types of attacks? Explain. [5]
- b) Describe Ping Sweep techniques. [5]
- c) Explain about ARP Poisoning and MAC Flooding. [5]
- d) Describe Web Server Hardening methods. [5]
- e) List the penetration testing steps. [5]

PART - B**5 × 10 Marks = 50**

- 2.a) Describe the different phases involved in ethical hacking and the five stages of ethical Hacking.
- b) Explain about the different types of DNS Records. [5+5]

OR

- 3.a) Define the Term Foot printing. Describe the Information Gathering Methodology and competitive intelligence.
- b) What is Hacktivism? What is Vulnerability Research? What are different types of Hacking Technologies? [5+5]

- 4.a) List TCP communication flag types and explain.
- b) Explain about Password-Cracking techniques. [5+5]

OR

- 5.a) What are different types of passwords? Explain in detail.
- b) What is enumeration? What is meant by null sessions? [5+5]

- 6.a) What is a "Smurf" attack? What is "SYN" Flooding? Describe the DoS/DDoS countermeasures.
- b) Differentiate between Virus and Worm. [5+5]

OR

- 7.a) How the Netcat Trojan works? What is meant by "Wrapping"?
- b) How DDoS attacks work? How BOTs/BOTNETs work? [5+5]

- 8.a) Explain about Hacking Web servers.
- b) What are the steps to conduct SQL injection? Explain. [5+5]

OR

- 9.a) Discuss in detail about buffer overflows.
- b) What is a Password Cracker? How does a Password Cracker Work? [5+5]

10. How to compile a Linux Kernel? Describe GCC compilation commands in detail. [10]

OR

11. Give an overview of penetration testing methodologies. List the automated penetration testing tools. [10]