Paper / Subject Code: 48826 / 8] Ethical hacking Dec 2023 ECS Semv (R-2019 Cscheme) E [Max Marks:80] 2/2023 Time: 3hrs N.B.: (1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Assume suitable data, if required and state it clearly. [20] Attempt any FOUR. 1 What makes the network vulnerable? List two active and passive attacks. What is Tunneling? How and why is it used in a Virtual Private Network (VPN)? a h Compare and contrast phishing and pharming. What is PUF? State benefits and drawbacks of PUF. d [10] Write a note on a lightweight cryptographic algorithm. Explain the need and outline the functions of an Intrusion Detection System (IDS). e a Differentiate between signature-based and anomaly-based IDS. [10] What are various social engineering attacks? Discuss several guidelines to prevent social [10] What is a confusion matrix? Explain any two biometric authentication schemes in detail. b How do False Negatives adversely affect any biometric authentication Scheme? a [10]Outline the top ten security projects in OWASP with their analysis. [10] What are zombies with respect to a DDOS Attack? What are the various types of b a DOS/DDOS Attacks? Explain any four in detail. [05] i) Compare and contrast between WEP, WPA and WPA2. [05] ii) Explain ethical hacking and various phases of ethical hacking. [10] What are the various types of Firewalls? Explain their working in detail. [05] i) How power consumption attacks help an attacker to gather information from the b [05] ii) What is DVWA? Explain the applications of a framework such as DVWA. How is a Hash obtained from the initial plaintext? Explain any one Hashing algorithm in [10][10]Write short note on the following (any two) SSL Clickjacking and cross site scripting i) ii) Significance of Honeypots iii)