

ADMISSION NUMBER									

School of Computing Science and Engineering
BCA with Industry Oriented Specialization in Computer Networks and Cyber Security
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem V - E1UD501B - Ethical Hacking

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

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| 1) | Discuss any cases of Cybercrime | K1 ,K1 (2) |
| 2) | Compare and contrast the security features of WEP and WPA | K2 ,K2 (4) |
| 3) | Describe the role of load balancing in protecting against DoS attacks. How does load balancing distribute incoming traffic to prevent overwhelming a single server | K2 ,K2 (6) |
| 4) | Discuss potential motivations behind launching deauthentication attacks, such as capturing handshake packets for password cracking | K3 ,K3 (9) |
| 5) | Explain network architecture that implements WPA2 for secure wireless communication | K3 ,K3 (9) |
| 6) | Outline a comprehensive strategy to prevent SQL injection vulnerabilities in web applications. Explore the concept of Content Security Policy (CSP) and its role in mitigating the impact of successful SQL injection attacks. | K5 ,K5 (10) |
| 7) | Differentiate in detail between a DoS attack and a Distributed Denial of Service (DDoS) attack. | K4 ,K4 (12) |
| 8) | Identify the possible threats for RSA algorithm and list their counter measures. | K5 ,K5 (15) |
| 9) | Perform encryption and decryption using RSA Algorithm for the following, P=7; q=11; e=17; M=8. | K5 ,K5 (15) |
| 10) | Evaluate the ethical implications of hacking for personal gain versus ethical hacking for security improvement. | K6 ,K6 (18) |