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Question Paper Code: U8401S

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

(Professional Elective)

Information Technology

21ITV401-ETHICAL HACKING

(Common to Computer Science and Engineering)

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 2 = 20 Marks)

1. List the Six types of flags in TCP Segment? CO1-U
2. What is a Trojan? What is the purpose of Trojans? CO1-U
3. Compare Nmap and Hping 2/3. CO1-U
4. What is network security assessment? CO1-U
5. What is LDAP? CO1-U
6. What is SMTP enumeration? CO1-U
7. What is vulnerability, explain web server vulnerabilities CO1-U
8. Recall the steps to secure wireless networks. CO1-U
9. What is Honey pot? How does it work? What are different types of Honey pots? CO1-U
10. What is the main purpose of using web filtering in an organization? CO1-U

PART B - (5 x 16= 80Marks)

11. (a) Explain in detail about TCP/IP Protocol Layers and discuss how intruders use these Layers for their Attack? CO1-U (16)
Or
(b) How to protect the system from Malware attack and Explain it in detail? CO1-U (16)
12. (a) Explain the concept of foot printing in the context of ethical hacking. Describe the different types of foot printing techniques and their purposes. CO1-U (16)

Or

- (b) Define competitive intelligence and explain its importance in strategic business planning. How can organizations effectively collect and analyze competitive intelligence? CO1-U (16)
13. (a) You are conducting a penetration test on a network where NetBIOS is enabled. Describe a detailed approach to assessing the security of NetBIOS services. CO2-App (16)
- Or
- (b) Apply the process of exploiting vulnerabilities in Windows Remote Desktop Protocol (RDP). CO2-App (16)
14. (a) Explain the impact of web server attacks? CO1-U (16)
- Or
- (b) Explain the Components of a Wireless Network in detail. CO1-U (16)
15. (a) What types of denial of service attacks can be launched against intrusion detection systems and Explain it in detail? CO1-U (16)
- Or
- (b) Explain the concept of Web Filtering in detail. CO1-U (16)