



B.E/B.TECH DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Fifth Semester

COMMON TO ALL BRANCHES

U18CSR5213: Ethical Hacking and Network Defense

COURSE OUTCOMES

- CO1:** Describe the legal and ethical requirements related to ethical hacking. [K2]
CO2: Understand the vulnerabilities, mechanisms to identify vulnerabilities/threats/attacks [K2]
CO3: Perform penetration & security testing [K3]
CO4: Examine the different tools and techniques that ethical hackers employ [K4]

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

(Answer not more than 40 words)

- | | | |
|-----------------------------------------------------------------------------------|-----|-------------------|
| 1. Outline the importance of computer security. | CO1 | [K ₂] |
| 2. Differentiate Spyware and Backdoor. | CO1 | [K ₂] |
| 3. Recall the objective of Footprinting. | CO2 | [K ₁] |
| 4. Mention the port number for the following protocol.
FTP, Telnet, SMTP, POP3 | CO2 | [K ₂] |
| 5. Show different port scanning techniques. | CO2 | [K ₂] |
| 6. List various TCP scan types. | CO2 | [K ₁] |
| 7. Differentiate active and passive sniffing. | CO3 | [K ₂] |
| 8. Explain the role of keylogger. | CO3 | [K ₂] |
| 9. Outline SQL injection and buffer overflow of web threats. | CO4 | [K ₂] |
| 10. Explain MAC Spoofing. | CO4 | [K ₂] |

Answer any FIVE Questions:-

PART B (5 x 16 = 80 Marks)

(Answer not more than 400 words)

- | | | | |
|-------------------------------------------------------------------------------|---|-----|-------------------|
| 11. a) Discuss about different type of hackers. | 8 | CO1 | [K ₂] |
| b) Illustrate the five phases of ethical hacking with explanation. | 8 | CO1 | [K ₂] |
| 12. a) Explain about any four Footprinting tools with suitable command usage. | 8 | CO2 | [K ₂] |

	b)	Differentiate active reconnaissance and passive reconnaissance.	8	CO2	[K ₂]
13.	a)	Explain about information gathering methodology of hackers with suitable tools.	8	CO2	[K ₂]
	b)	Define enumeration and explain the steps involved in enumeration.	8	CO2	[K ₂]
14.	a)	Identify different types of password attacks.	8	CO3	[K ₃]
	b)	Discuss about any four filters using Wireshark tool with its purpose.	8	CO3	[K ₂]
15.	a)	Summarize the process of cross-site scripting.	8	CO4	[K ₂]
	b)	Illustrate how session hijacking is perform with suitable example.	8	CO4	[K ₂]
16.	a)	Summarize various wireless hacking techniques.	8	CO4	[K ₂]
	b)	Outline the guidelines to secure the home wireless network.	8	CO4	[K ₂]
