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|---|---|----|-----|
| 17. Differentiate between authentication and authorization. | 2 | K2 | CO4 |
| 18. Define Access Control.                                  | 2 | K1 | CO4 |
| 19. List the steps involved in cracking a Password.         | 2 | K1 | CO5 |
| 20. State the countermeasures to authentication attacks.    | 2 | K1 | CO5 |
| 21. What do you mean by DOM based XSS?                      | 2 | K1 | CO6 |
| 22. Recall HTTP header injection.                           | 2 | K1 | CO6 |

**PART - C (6 × 11 = 66 Marks)**

Answer ALL Questions

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|---|----|----|-----|
| 23. a) Discuss the concept involved in ethical hacking and mention the essential terminologies involved with examples.  | 11 | K2 | CO1 |
| <b>OR</b>   |    |    |     |
| b) Demonstrate the phases involved in ethical hacking. Provide a detailed explanation of each phase including foot printing, scanning, system hacking, and session hijacking. | 11 | K2 | CO1 |
| 24. a) Illustrate the different types of Spoofing and Sniffing attacks with examples.   | 11 | K2 | CO2 |
| <b>OR</b>   |    |    |     |
| b) Explain why do attacker need foot printing? Elaborate the objectives of foot printing in detail.   | 11 | K2 | CO2 |
| 25. a) Summarize on:<br>(i) Threats to web applications<br>(ii) Web application Hacking   | 11 | K2 | CO3 |
| <b>OR</b>   |    |    |     |
| b) Discuss the impact of Cross-Site Scripting (XSS) attacks on web applications and users.  | 11 | K2 | CO3 |
| 26. a) Explain in detail about HTTP Protocol in managing Requests – Responses of client Server model.   | 11 | K2 | CO4 |
| <b>OR</b>   |    |    |     |
| b) Illustrate about Session Management in detail.   | 11 | K2 | CO4 |
| 27. a) Explain the six types of password attacks in detail.   | 11 | K2 | CO5 |
| <b>OR</b>   |    |    |     |
| b) Discuss in detail about the flaws in authentication mechanisms with a suitable example.  | 11 | K2 | CO5 |
| 28. a) Develop the process for exploiting HTTP header injection to bypass security mechanisms like Content Security Policy (CSP)?   | 11 | K3 | CO6 |
| <b>OR</b>   |    |    |     |
| b) Identify the various types of XSS vulnerability attack with an example.  | 11 | K3 | CO6 |