



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:V
Class:TY	Program:B.Tech
Branch Code:ETC	Pattern:2023
Name of Course:Cyber Security Tools Techniques and Counter Measures	Course Code:2302309A
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 2 pages.
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

- 1a) **What is cyber security? Define Cyber Security Essentials.** (6) CO1

Question No. 2

- 2a) **Describe how a firewall monitors and controls incoming and outgoing network traffic.** (6) CO2

Question No. 3

- 3a) **Use ZAP to scan a demo website for vulnerabilities** (8) CO3

OR

- 3b) **What is the purpose of a firewall in a network? Name two common firewall tools used in Windows and Linux** (8) CO3

- 3c) **Explain the role of SQLMap in ethical hacking** (8) CO3

OR

- 3d) **What is WebGoat? Explain** (8) CO3

Question No. 4

- 4a) **Define browser-based attacks with examples. List any four common web attacks that target users.** (8) CO4

OR

- 4b) **Differentiate between hacking and ethical hacking** (8) CO4

- 4c) **Describe any two common types of cyber crimes** (8) CO4

OR

- 4d) **Compare live forensics and static forensics in a cybercrime investigation** (8) CO4

Question No. 5

- 5a) **Describe the concept of 'chain of custody' in cybercrime investigation** (8) CO5

OR

- 5b) **Apply the definition of a computer crime to classify phishing as a cyber offense.** (8) CO5
- 5c) **Identify how the IT Act 2000 helps protect users from data theft.** (8) CO5

OR

- 5d) **Explain the term “computer crime” in your own words** (8) CO5

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