(Please write your Exam Roll No.) *Exam Roll No. .....*

END TERM EXAMINATION

FIFTH SEMESTER [BCA] DECEMBER 2025

Paper Code: BCAT-313 ***Subject: Web Security***

Time: 3 Hours ***Maximum Marks: 60***

Note: Attempt five questions in all including Q. No.1 which is compulsory. Select one question from each unit.

Q1 Write short notes on the following: **(2x10=20)**

(a) Give a brief account of the Components of the Internet.
(b) Write about DNS rebinding.
(c) Explain any two Cyber Crimes.
(d) Give a brief account of Web Browser Security.
(e) Define Clickjacking.
(f) Define Ethical Hacking.
(g) Differentiate between HTTP and HTTPs.
(h) Compare Web Application Security vs Network Security.
(i) Write short notes on Injection Flaws.
(j) Explain Web Application Firewalls.

UNIT-I

Q2 (a) Explain the architecture of a web application. What are the weak points of this architecture? Suggest a few remedies that can make a web application more secure. **(5)**

(b) What are different Social media security risks? Explain any three risks. **(5)**

Q3 (a) What is social media data collection? How can it be used for profiling the target? What are common techniques of data collection? **(5)**

(b) What are the steps involved in the process of Web Hacking? Explain any three of them with suitable examples. **(5)**

UNIT-II

Q4 (a) What do you understand by SQL Injection? What are the different types of SQL injection? Explain with a suitable example. **(5)**

(b) What are the different types of authentication techniques? Explain. **(5)**

Q5 (a) What do you understand by web browser security? What are common threats of web browsers and their preventions? **(5)**

(b) What is SMIME? Explain how it helps in email security. **(5)**

UNIT-III

Q6 (a) Explain in detail Cyber laws, Cyber Security Investigation, and Cyber Security Solutions. **(5)**

(b) How Cyber Security Audit and Investigations are performed? **(5)**

Q7 (a) Explain Wireless Network Security its components and Security issues. **(5)**

(b) How Mobile Security Management is performed? Explain the disaster recovery mechanism in brief. **(5)**

UNIT-IV

Q8 (a) Explain in detail about AJAX attack trends and common attacks. **(5)**

(b) Explain the Logging collection and analysis for web apps. **(5)**

Q9 (a) Explain in detail the IPv6 impact on web security. **(5)**

(b) Explain the HTML5 security mechanism. **(5)**

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CamScanner