

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

May-June 2025-26		
B. Tech- Scheme I/II/IIB/III: IIB		
Regular/Supplementary Examination: FY/SY/TY/LY Semester: I/II/III/IV/V/VI/VII/VIII		
Course Code: HCCC801 and Course Name: Application Security		
Date of Exam: 29-05-26	Duration: 02.5 Hours	Max. Marks: 60

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	What is web application reconnaissance?		CO1	U
b)	How to defend against SQL injection		CO2	App
c)	What are parameterized queries?		CO3	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	What is segregation of production data?		CO4	U
b)	Define dynamic web application profiling.		CO5	U
c)	List benefits of threat modeling.		CO6	U
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Explain CORS vulnerabilities and DoS attacks with examples.		CO1	App
b)	Explain vulnerability discovery and code review for security		CO2	App
c)	Discuss techniques for securing cookies, passwords, and storage.		CO3	App
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Explain roles and responsibilities in secure development teams.		CO4	App
b)	Explain testing strategies for databases, APIs, and integrations.		CO5	App
c)	Explain integration of threat modeling in SDLC.		CO6	App
