

CBCS SCHEME

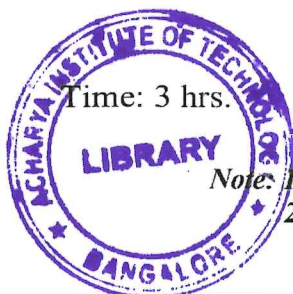
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BEC/BTE714B

Seventh Semester B.E./B.Tech. Degree Examination, June/July 2026

Computer and Network Security



Time: 3 hrs.

Max. Marks: 100

*Notes: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	List the basic principles of security and state the three key security goals in network security.	10	L1	CO1
	b.	Explain the need for computer and network security in modern systems.	10	L2	CO1
OR					
Q.2	a.	Interpret the active attacks and passive attacks in detail.	10	L1	CO1
	b.	Explain network security model with suitable diagram.	10	L2	CO1
Module – 2					
Q.3	a.	Explain the following : i) Computer virus ii) Computer worm iii) Trojan Horse	10	L2	CO2
	b.	Explain the creation and usage of cookies.	5	L2	CO2
	c.	Explain the following specific attack with an example for each i) Phishing ii) Pharming.	5	L2	CO2
OR					
Q.4	a.	Discuss the spread and impact of computer worms in networks.	10	L2	CO2
	b.	Discuss how malware exploits vulnerabilities in software or operating systems.	10	L2	CO2
1 of 2					

Module – 3

Q.5	a.	Describe the anatomy of an auditing system.	10	L2	CO3
	b.	Discuss the design considerations for an effective auditing system.	10	L2	CO3

OR

Q.6	a.	Explain the difference between real time monitoring and audit based review.	10	L2	CO3
	b.	Illustrate the components of an audit framework used in operating system.	10	L2	CO3

Module – 4

Q.7	a.	Discuss the role of policy enforcement in network security management.	10	L2	CO4
	b.	Explain the relationship between network availability and network reliability.	10	L2	CO4

OR

Q.8	a.	Explain the role of policies in ensuring system security.	10	L2	CO4
	b.	Explain how retrospective system analysis contributes to continuous improvement in security.	10	L2	CO4

Module – 5

Q.9	a.	Explain the threats involved in electronic communication system.	10	L2	CO4
	b.	Explain the role of user identity management in securing system.	10	L2	CO4

OR

Q.10	a.	Explain the relationship between program design, refinement and implementation.	10	L2	CO4
	b.	Discuss how input validation helps prevent common attacks.	10	L2	CO4
