(10 Marks)

(10 Marks)

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Seventh Semester B.E./B.Tech. Degree Examination, June/July 2025

Network Security

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

		Module-1	
1	a.	Discuss the principles of security in detail each with an example.	(10 Marks)
	b.	Explain Passive and Active attacks with a suitable diagram.	(10 Marks)
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		OR	
2	a.	With a neat diagram, explain the model for Network security.	(10 Marks)
	b.	Describe the terms Viruses, Worms and Cookies.	(10 Marks)
		Module-2	
3	a.	Draw the Secure Soket Layer Protocol stack and describe the working in detail.	(10 Marks)
	b.	Discuss the four stages of Handshake Protocol with a diagram.	(10 Marks)
		OR	*
4	a.	Draw and explain Secure Shell (SSH) Protocol.	(10 Marks)
	b.	What is the importance of HTTPS? Explain the connection initation and clousure	of HTTPS.
			(10 Marks)
		Module-3	
5	a.	Explain IP Security Architecture with a diagram.	(10 Marks)
	b.	Explain in brief Transport and Tunnel mode.	(10 Marks)
		OR	
6	a.	With a flow chart, explain processing for outbound and inbound packets.	(10 Marks)
	b.	Explain ESP packet format in detail.	(10 Marks)
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7		Module-4 Name the classes of introders Describe the introder behavior nettern	(10 M l)
7		Name the classes of intruders. Describe the intruder behavior pattern.	(10 Marks)
	U.	Define Intrusion detection. Explain rule based detection.	(10 Marks)
		OR	
8	a.	Describe the four phases of virus.	(10 Marks)
O	b.	Explain in brief Virus counter measures.	(10 Marks)
	U.	Explain in other virus counter measures.	(10 Marks)
		Module-5	
9	a.	List and explain firewall characteristics in brief.	(10 Marks)
	b.	Explain different types of Firewall.	(10 Marks)
			(= 3 1.2)

Explain in detail various firewall configuration.

With a suitable diagram, explain distributed firewall.