ii) Logic bomb iii) Trojan horse.

b. Explain digital immune system with a neat diagram.

CBCS SCHEME

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Eighth Semester B.E. Degree Examination, Dec.2024/Jan.2025 Network Security

		Network Security		
Tin	ne: 3	3 hrs. Max.	Max. Marks: 100	
	N	ote: Answer any FIVE full questions, choosing ONE full question from each	module.	
		Module-1		
1	a.	Explain briefly the principles of security with suitable examples.	(10 Marks)	
	b.	Explain any five types of criminal attacks.	(10 Marks)	
		OR		
2	a.	Define the various phases of viruses and their categories.	(10 Marks)	
	b.	Explain briefly packet spoofing and DNS spoofing attacks with suitable example.	oles. (10 Marks)	
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		Module-2		
3	a.	Define SSL connection and session state parameters.	(10 Marks)	
	b.	Explain the message authentication code and pseudo random function us	ed in TLSV3 (10 Marks)	
		OR		
4	a.	Define the fatal and alert codes of SSLV3.	(10 Marks)	
	b.	Explain the basic concept of port forwarding. Also explain local port forwarding example.	varding with a (10 Marks)	
		Module-3		
5	a.	Define the parameters of security association database.	(10 Marks)	
	b.	Explain briefly IP traffic processing.	(10 Marks)	
		OR		
6	a.	Explain the top level format of Encapsulated Security Payload (ESP) packet.	(10 Marks)	
	b.	Explain the IKE header and payload formats.	(10 Marks	
		Module-4		
7	a.	Explain three classes of intruders with an example for each.	(10 Marks)	
	b.	With the neat diagram, explain distribution intrusion detection.	(10 Marks)	
		OR		
8	a.	Explain the following malicious softwares: i) Backdoor		
		7.	. (1)	

(10 Marks)

(10 Marks)

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9 a. List the design goals and services provided by firewall.

b. Explain the capabilities and limitations of firewall.

OR

10 a. Explain the following firewalls briefly:

a. Explain the following firewalls oriefly:
 i) Application – level gateway
 ii) Circuit – level gateway.
 (10 Marks)
 Explain screened – subnet firewall system with a neat diagram.
 (10 Marks)

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