

## Eighth Semester B.E. Degree Examination, June/July 2023 Information and Network Security

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

## PART - A

		$\mathbf{r}\mathbf{A}\mathbf{K}1 - \mathbf{A}$	
1	a.	Explain ISSP and SysSP in detail.	(08 Marks)
	b.	Explain design of security architecture in detail with a neat diagram.	(06 Marks)
	C.	Explain business continuity planning process in detail with an example.	(06 Marks)
2	a.	What is firewall? Explain different firewall rules in detail.	(08 Marks)
	b.	Explain the following firewall architectures with neat diagram:	(
	0.	(i) Dual-Homed Host Firewall	
		(ii) Screened Subnet Firewall (with DM2)	(08 Marks)
	c.	Write a note on content filters.	(04 Marks)
	С.	write a note on content inters.	(04 Marks)
3	a.	Explain different types of IDP system.	(10 Marks)
J	b.	Define Honey Pot. List its advantages and disadvantages.	(10 Marks)
	U.	Define Holley For. List its advantages and disadvantages.	(10 Marks)
4	a.	Explain transposition cipher method with an example.	(08 Marks)
4	b.	Explain any three types of cryptographic tools.	(12 Marks)
	U.	Explain any times types of cryptographic tools.	(12 Marks)
PART – B			
5	a.	Explain different types of active attacks and passive attacks with neat diagrams.	(10 Marks)
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	b.	With a neat diagram, explain a model for network security in detail.	(10 Marks)
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6	a.	Explain the different types of PGP services.	(06 Marks)
	b.	With a neat diagram, explain the general format of PGP message.	(06 Marks)
	C.	Explain functions and cryptographic algorithms used in S/MIME functionality.	(08 Marks)
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7	a.	With a neat diagram, explain IPSec Architecture in detail.	(10 Marks)
	b.	Write a note on Encapsulating Security Payload (ESP).	(10 Marks)
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8	a.	Explain SSL protocol stack and discuss session and connection state parameters.	(10 Marks)
	b.	Explain the requirements and features of Secure Electronic Transaction (SET).	(10 Marks)

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42-8 = 50, will be treated as malpractice.