## GENERAL GENTERME

	SPUS SUITING	
US	N N	15EC835
-	Eighth Semester B.E. Degree Examination, Dec.20	)19/Jan.2020
	Network and Cyber Security	/1// Gun. 2020
- All	R /2/	
ORE	me: 3 hrs.	Max. Marks: 80
	Note: Answer any FIVE full questions, choosin ONE full question from each module.	g
	Module-1	
1	a. Define various parameters that are associated with session state and	connection state of SSL
	protocol.	(08 Marks)
	b. Explain the additional alert codes in TLS over SSLVs. Describe S	SL record protocol. (08 Marks)
		(oo maaas)
2	a. With relevant diagram explain the various phases of handshake prot	0001 (10.14.1.)
	b. Discuss sequence of steps involved during message exchange	ocol. (10 Marks) in user authentication
	protocols of SSH.	(06 Marks)
	Q-	
	Module-2	*
3	a. Describe with flow diagram transmission and reception of PGP mess	sages. (06 Marks)
	b. With relevant diagram explain the confidentiality and authentication	on services provided by
	PGP protocol.	(10 Marks)
	OR	
4	a. Describe the various header fields defined in MIME.	(04 Marks)
	<ul><li>b. Describe the functions provided by S MIME.</li><li>c. With relevant diagram, explain the DKIM functional flow.</li></ul>	(04 Marks)
	and anglain, explain the Brent functional flow.	(08 Marks)
	C. C	
_	Module-3	
5	a. Draw a diagram to illustrate IP security scenario and also explain ber	
	b. With relevant diagram, describe various fields in ESP packet format.	(08 Marks) (08 Marks)
	A I'Y D	,
6	a. Draw and explain the IP traffic processing model for inbound and out	thound neakata
	W I	(10 Marks)
	b. With relevant diagram, describe IKE header and payload format.	(06 Marks)
	Module-4	
7	a. Mention the types of cyber anti-pattern templates. Explain the various	us components of these
	21 1 out and pattern templates. Explain the valle	40 components of these

templates.
b. Write a brief note on "No time for Security" anti-patterns. (10 Marks) (06 Marks)

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

## OR

- 8 a. Explain the various specialized skills that should be available on-demand in IT security shops. (05 Marks)
  - b. What is the significance of signature based Malware detection and what are its limitations against polymorphic threats. (05 Marks)
  - c. Write a brief note on forces in cyber anti-pattern.

(06 Marks)

## Module-5

9 a. Describe the architectural problem solving patterns.

(08 Marks)

b. Explain the role of Zachmann framework in cyber security.

(08 Marks)

## OR

- 10 a. Explain various technology included in HBS (Host Based Security). (10 Marks)
  - b. Why is network administration on essential skill for hands-on-cyber security professional? (06 Marks)

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