(2½ hours)

	( <b>2</b> /2 <b>lioui</b> s)	[Total Marks: 75]
N. B.:	<ol> <li>(1) <u>All</u> questions are <u>compulsory</u>.</li> <li>(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the as</u></li> <li>(3) Answers to the <u>same question</u> must be <u>written together</u>.</li> <li>(4) Numbers to the <u>right</u> indicate <u>marks</u>.</li> <li>(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u>.</li> <li>(6) Use of <u>Non-programmable</u> calculators is <u>allowed</u></li> </ol>	sumptions made.
1	Attempt <u>any three</u> of the following:	15
a	Explain three D's of security.	
b	Explain the statement that "Achieving 100 percent protection against	all
	conceivable attacks is an impossible job"	8 8 9 5 5 6 7 12 4 B
c	Write a note on Threat Vector.	Paragraphic Mark
d	What are Application layer attacks? Explain following Application lay	yer attacks:
	i) Buffer overflows	
	ii) Password cracking	
e	Explain the Onion Model.	
f	List and explain the steps to create a Security Defense Plan.	
2	Attempt <u>any three</u> of the following:	15
a	Explain certificate-based authentication in detail.	
b	Write a note on Role-based Authorization (RBAC).	
c	Write a note on symmetric key cryptography.	
d	Explain any two confidentiality risks.	
e	Write a note on object-level security.	DIICATION
f	Explain different types of database backups.	JUUNIION
3	Attempt any three of the following:	15
a	Write a note on outbound filtering.	15
b &	Explain the role of hubs and switches in network.	
c	Explain in detail Network Address Translation (NAT).	
d	Explain strengths and weaknesses of a firewall.	
e	Explain the importance of antenna choice and positioning.	
f	Explain any two types of wireless attacks.	
		15
4	Attempt <u>any three</u> of the following:  Explain network-based intrusion detection system in detail.	15
a b	List and explain steps to a successful IPS Deployment plan.	
C	Write a note on H.323 protocol that includes:	
50,00	i) Governing Standard	
	ii) Purpose	
	iii) Function	
	iv) Known Compromises and Vulnerabilities	
	v) Recommendations	
3000		TIRN OVER)

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- d What is Private Branch Exchange (PBX)? How will you secure PBX?
- e Write a note on Access Control List (ACL).
- f Explain the reference monitor concept and windows security reference monitor.

## 5 Attempt <u>any three</u> of the following:

15

- a Explain how to protect the Guest OS, Virtual Storage and Virtual Networks in Virtual machines.
- b State and explain types of cloud services.
- c Explain various Application Security Practices.
- d Write a note Custom Remote Administration.
- e Explain the classification of Corporate physical Assets.
- f Explain Locks and Entry Controls that should be considered while securing assets with physical security devices.



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