	(2½ hours)	956
	[Total Man	rks: 75]
N. B	B.: (1) All questions are compulsory.	
	(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> m	nade
	(3) Answers to the <u>same question</u> must be <u>written together</u> .	
	(4) Numbers to the <b>right</b> indicate <b>marks</b> .	25.00 Ve
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculators is allowed	
1	Attempt <u>any three</u> of the following:	15
a	Explain three D's of security.	3 7-90
b	Explain the statement that "Achieving 100 percent protection against all	, 600 P
U	conceivable attacks is an impossible job"	732 NO. 18
c	Write a note on Threat Vector.	XP BY
d	What are Application layer attacks? Explain following Application layer attacks:	6,7%
u	i) Buffer overflows	Q <sup>E</sup>
	ii) Password cracking	
Δ.	Explain the Onion Model.	
e f	List and explain the steps to create a Security Defense Plan.	
1	List and explain the steps to create a Security Defense I fair.	
2	Attempt any three 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.	
f	Explain different types of database backups.	
2		15
3	Attempt <u>any three</u> of the following:	15
a	Write a note on outbound filtering.	
b	Explain the role of hubs and switches in network.	
	Explain in detail Network Address Translation (NAT).	
d	Explain strengths and weaknesses of a firewall.	
e f	Explain the importance of antenna choice and positioning.  Explain any two types of wireless attacks.	
9 B	Explain any two types of wheless attacks.	
4	Attempt any three of the following:	15
a	Explain network-based intrusion detection system in detail.	
b	List and explain steps to a successful IPS Deployment plan.	
c	Write a note on H.323 protocol that includes:	
620	i) Governing Standard	
	ii) Purpose	
5 35	iii) Function	

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[TURN OVER]

iv) Known Compromises and Vulnerabilities

v) Recommendations

- 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 *any three* 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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