(2½ Hours)

[Total Marks: 75]

	N. B.: (1) All questions are compulsory.	
	(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made	
	(3) Answers to the same question must be written together.	5.
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculators is allowed.	
	(a) one of the programmable calculators is anowed.	
1.	Attempt any three of the following:	
a.	What are the importance of information protection? Explain with example.	
b.	Explain various components used to build a security program.	
c.	What are the three recognized variants of malicious mobile code? Explain.	Çî,¢r
d.	Write a short note on Network-Layer Attack.	
e.	Explain the two most common approaches of security.	
f.	Explain the best practices for network defence.	
2.	Attempt any three of the following:	1.5
a.	Define authentication. Explain two parts of authentication	15
b.	Explain the authorization systems.	
c.	Explain public key Cryptography	
d.	What are the three primary categories of storage infrastructure in modern storage security?	
	Discuss,	
e.	Write a short note on integrity risks.	
f.	Explain Database-Level Security.	
3.	Attempt any three of the following:	15
a.	Explain the Cisco Hierarchical Internetworking model	15
b.	Explain network availability and security.	
C.	Write a short note on hubs and switches.	
d.	Explain the features of firewall,	
e.	Explain the five different types of wireless attacks.	
f.	What are the countermeasures against the possible abuse of wireless LAN?	
4.	Attempt any three of the following:	
a	Explain intrusion Defense System types and detection models	15
b	Write a short note on Security Information and Event Management	, .
С	what are components of Voice Over IP? Explain	
d	Write a short note on Private Bank Exchange	
9	Explain different classic security models	
	Write a short note on trustworthy computing.	
5.	Attempt any three of the following:	
ì.	Define virtual machine. How is hypervisor responsible for managing all guest OS installation	15
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).	What is cloud computing? Explain the types of cloud services.	
	Explain the application security practices and decisions that appear in most	
	Explain the reasons for remote administration security. What are advantages of web remote	

Explain the security considerations for choosing a secure site location.

Explain the different factors for securing the assets with physical security devices.

C. d.

f.

4. a b

b. c.

e.