USN							33			
-----	--	--	--	--	--	--	----	--	--	--

Eighth Semester B.E. Degree Examination, June/July 2017

Information and Network Security

Time: 3 hrs.

Max. Marks: 100

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

PART - A

1	a.	Explain the term policy,	standard	and	practice	with respect	to information	security with a
		neat diagram.						(08 Marks)
						1	21	(12 3/11)

b. Describe in details the major steps in contingency planning with a diagram. (12 Marks)

a. What is a firewall? Discuss the categorization methods of firewall.
b. What is Virtual Private Networks (VPN)? Explain two modes of a VPN.
(08 Marks)

3 a. Bring out the different types of intrusion detection system (IDSs), with their advantages and disadvantages. (10 Marks)

b. Define:

i) False negative

ii) False positive

iii) Site policy

iv) Alarm filtering.

(04 Marks)

c. Explain Honey pots, Honey nets and padded cell systems.

(06 Marks)

4 a. Encipher the text message "VISVESVARAYA TECH VERSITY" with one-time pad text "JNANA SANGAMA KARNATAKA ST" using Vernam cipher technique. (10 Marks)

Explain the different attack on cryprosystem.

(10 Marks)

PART - B

5 a. Discuss the different security attack.b. Explain in detail the X.509 certificates format with a diagram.

(10 Marks)

(10 Marks)

6 a. Discuss the services of pretty good privacy (PGP). (10 Marks)

b. Explain the Multipurpose Internet Mail Extension (MIME) content type.

(05 Marks)

c. Briefly explain the S/MIME functionality.

(05 Marks)

a. With a diagram, explain the authentication header of IPSec packet. (10 Marks)

b. Discuss the transport and tunnel modes of operation in Encapsulating Security Payload (ESP). (10 Marks)

8 a. Explain the four phase of handshake protocol action in Secure Socket Layer (SSL).

(10 Marks)

b. Discuss the key features and components of Secure Electronic Transaction (SET). (10 Marks)

* * * * *