streaming media.

10001117

First Semester M.Tech. Degree Examination, June 2012 **Information Security**

Max. Marks:100 Time: 3 hrs.

Note: Answer any FIVE full questions.

		Note. Answer with 12.2 - June 4	
		A successful organization should have multiple layers of security. Identify any five and describe. Identify any five critical characteristics of information and explain.	ve of them (10 Marks) (10 Marks)
	2	Draw the diagram of Dual-Homed host firewall and give description. Define the terms honey pot and honey nets. Identify two advantages of each.	(10 Marks) (10 Marks)
3	a. b	Define the term "Security management models". What are the basic components of configuration and change management model defined by ISO? Under the maintenance model, briefly discuss the topic "planning and risk assessment models, briefly discuss the topic "planning and risk assessment models, briefly discuss the topic "planning and risk assessment models, briefly discuss the topic "planning and risk assessment models, briefly discuss the topic "planning and risk assessment models, briefly discuss the topic "planning and risk assessment models".	(10 Mains)
4	a. b.	Define the following in a computer network application: (i) Authentication (ii) Data confidentiality (iii) Integrity (iv) Replay attack (v) Non-repudiation. Draw the diagram of encryption part of fiestal network and explain.	(10 Marks) (10 Marks)
5	a. b.	Using application diagram of SHA-512 processing of a single 1024-bit block at the details on how it works. Consider a Diffie-Hollman scheme with a common prime number $q = 11$ and it roof "a" = 2	(10 Marks)
		 (i) If user A has public key y_A = 9, what is the private key of A (X_A)? (ii) If user B has public key y_B = 3, what is the shared key between them? 	(04 Marks) (06 Marks)
6	a. b.	Under PGP draw the block diagram depicting confidentiality and authentication describe. Distinguish between transport mode and tunnel mode in IP security. Illustrate with the format that includes ESP under tunnel mode in IPV ₄ .	(10 Maiks)
7	a b.	Explain, with a diagram, the operation of SSL record protocol.	(10 Marks) (10 Marks)
8	a.	A flawed program in C language is shown below: int main () { int buffer [10]; buffer [20] = 37;} i) Identify the flaw in this program.	(05 Marks)
		ii) What will be the effect of this flaw on the system? Under the topic software flaw define and explain the term "Race condition". What is digital rights management (DRM)? Discuss in detail how DRM can be streaming media	(05 Marks) (05 Marks) applied to (10 Marks)

Isorily draw diagonal cross lines on the remaining blank zes.