Seat No.: _____

services.

Enrolment No._____

		AL UNIVERSITY TON –SUMMER-2017	
Subject code: 3640004		Date: 06/06/2017	
Subject Name: Network Security Time: 10:30 AM – 01:00 PM Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever 3. Figures to the right indicate full mar	r necessary.	Total Marks: 70	
Q.1 (a) Expand following abbreviations	S	07	
	WPA 4. SSH OSI	ł	
(b) Define Following Terms with one/t	two line(s) definitio	n 07	
 Encryption Data Integrity Cryptanalysis Public Key Password Protection Network Layer Hyper Text Browser 			
Q.2 (a) What is OSI Security Architect	ture? Discuss OSI-S	SA with reference of security attack,	
mechanism and services.		07 07	
(b) Discuss network access securit	OR	agram and services. 07	
(b) List and briefly mark out categ	ories of passive and	active security attacks. 07	
Q.3 (a) Why do some block cipher mode encryption and decryption? Differentia(b) What is triple encryption? Why encryption?	te between a block the middle portion	• • • • •	
Q.3 (a) What properties must a hash fur	OR nction have to be us	seful for message authentication? In the	
context of a hash function, what is a con	mpression function?	-	
Q.4 (a) What is the basic building block	k of an 802.11 WLA	AN? List and briefly define IEEE 802.11	

07

(b) List out the security services provided by WTLS and describe with appropriate example.			
OR			
Q.4 (a) Draw a neat and clean diagram of Secure Socket Layer (SSL) stacks and compare the SSL 2.0			
and SSL 3.0 architecture.	07		
(b) Describe three alternative approaches to providing WAP end-to-end security.			
Q.5 (a) What are the five principal services provided by PGP? Why does PGP generate a signature			
before applying compression?			
(b) 1. What is the difference between transport mode and tunnel mode?			
2. List out any 3 design requirements of HMAC			
OR			
Q.5 (a) 1. What do you understand by FIREWALL? Describe the various types of Firewall.	04		
2. Why firewall is needed in a secure network?			
(b) 1. List and briefly define three classes of intruders.			
2. Elucidate how enveloped data is generated in SMIME.			
