Register Number:



Date: XX/10/2018

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27 M.Sc COMPUTER SCIENCE - I SEMESTER SEMESTER EXAMINATION: OCTOBER 2018 CS7418: ADVANCED COMPUTER NETWORKS AND NETWORK SECURITY

Time- 2 1/2 hrs

Max Marks-70

This paper contains __1_printed pages

Answer any SEVEN questions	7x10=70
1. Discuss in detail about the Architecture of TCP/IP.	
2. a)What are the various classes of IPv4 addresses?	(7+3)
b) What is the significant of DNS?	,
3. a) What is default subnet addressing for different classes?	(5+5)
b) Explain Bootstrap protocol.	
4. a) Explain in detail Mapping Internet Address to Physical Address.	(5+5)
b) what is the use of ICMP?	
5. a) Explain any one routing algorithm in detail.	(5+5)
b)Explain User datagram protocol.	
6. a) Explain Polyalphabetic Substitution method.	(5+5)
b)Explain Hill Cipher method.	4 (4 0)
7. What is Asymmetric key cryptography? Discuss RSA algorithm with	1 '
8. a) Explain Virtual Private Networks.	(5+5)
b) Write the characteristics of firewalls.	
9. Explain Data Encryption Standard.	