M.Sc. (IT) Semester – III Examination

Nov/-- -2014

Paper No. 09: Data Communication and Network (3598)

Dula	Duration. 2/2 Hours	
Q -1)	Answer the following Questions.	14
	a. What is Network? Explain different types of Network.	
	b. What is Protocol? Explain the importance of protocol in the working of Internet.	
	OR	
Q -1)	Answer the following Questions.	14
	a. Write a note on: Internet Layered Architecture.	
	b. Differentiate between Internet and Network and explain various topologies of	
	Network.	
Q -2)	Answer the following Questions.	14
	a. Write a note on : Role of HTTP over the Internet.	
	b. What is DNS? Explain the working of DNS over the Internet.	
	OR	
Q -2)	Answer the following Questions.	14
	a. Explain the working of FTP in detail.	
	b. What is Socket? Briefly explain the fundamentals and need of Socket Programming.	
	or white to booker. Strong explain the full dather than a first root of control of grant and	
Q -3)	Answer the following Questions.	14
	a. What is TCP? Explain the roles and responsibilities of TCP over the Network and	
•	Internet.	
	b. Write a note on : UDP.	
	OR	
Q -3)	Answer the following Questions.	14
	a. Explain the role of Transport Layer in OSI Reference Architecture.	
	b. Differentiate between: TCP and UDP.	
Q-4)	Answer the following Questions.	14
	a. Write a note on : Network Layer.	
	b. What is Routing? Explain Dijkstra routing algorithm with a suitable example.	
o 41	OR	14
Q -4)	Answer the following Questions.	14
	a. Write a note on: Data Link Layer.	
	b. What is ARP? Explain the working and importance of ARP with a suitable example.	
Q -5)	Answer the following Questions.	14
¬ -,	a) What is Network Security? State various aspects need to be considered to ensure	
	Network Security?	
	b) Write a note on : Network Management.	
	OR	
Q -5)	Answer the following Questions.	14
	a) What is Threat? Explain various types of Threat.	
	h) Explain various measures to be taken in order to run a Network smoothly	