Code: IT5T2

III B.Tech - I Semester – Regular Examinations - November 2015

COMPUTER NETWORKS (INFORMATION TECHNOLOGY)

Max. Marks: 70 Duration: 3 hours Answer any FIVE questions. All questions carry equal marks 1 a) List down the advantages and disadvantages of OSI reference model. Compare them with TCP/IP model. 10 M b) Explain the need of layering in network architectures. 4 M 6 M 2 a) What is e-mail? Discuss about the user agent. 8 M b) Write short notes on the following i) FTP ii) Secure shell 3 a) Explain the following with reference to Transport layer. 6 M ii) Buffering i) Flow control b) Explain the services provided by the transport layer to the 8 M upper layers.

4 a	Explain the following terms.			6 M
	i)unicast	ii) multicast	iii) Broadcast	
b	b) Explain Distance vector routing protocol and mentidrawbacks.			its 8 M
_				
5 a	Explain in detail the operation of slotted aloha.			6 M
b)	Write short notes on point coordination function (PCF) and			
	distributed coord		· ·	8 M
6 a) Explain the caus	es of transmissio	n impairment	6 M
b) What is line cod	ing? Explain any	2 polar schemes.	8 M
7 a) Explain in detail	about loss and lo	ossless compression.	7 M
b) Explain in detail	about security g	oals.	7 M
8 a) Briefly explain a	bout client serve	r paradigm.	4 M
b	Write a program and explain concurrent approach with			
	TCP.			10 M