



Code No. : 5441/N

## FACULTY OF ENGINEERING

## B.E. 2/4 (CSE) II Semester (New) (Main) Examination, May/June 2012 DATA COMMUNICATIONS

Time: 3 Hours] [Max. Marks: 75

**Note**: Answer **all** questions from Part – **A**. Answer **any five** questions from Part – **B**.

	PART-A	(25 Marks)
1.	What are the advantages of Layered approach to protocols?	3
2.	What are the functions of data link layer?	3
3.	Write the rules of different scrambling techniques.	3
4.	What is the principle of frequency reuse technique?	2
5.	List different types of issues in error control for a link control protocol.	2
6.	Write main requirements of wireless LAN.	2
7.	Define Null-Modem with neat diagram.	3
8.	What are the different types of Noises?	2
9.	What is ethernet? What are the different types of ethernet?	3
10.	Differentiate bridge and route.	2
	PART-B	(50 Marks)
11.	a) List the layers of TCP/IP Model. What is their functionality?	5
	b) Define channel capacity and different types of Data transmission mo	odes. 5
12.	a) Explain about PCM.	5
	b) Explain flow control protocols.	5

13.	a) Explain in detail CRC error detection technique with suitable examples.	7
	b) Describe the ATM cell header format in brief.	3
14.	a) Describe how MAC is done in IEEE 802.11.	5
	b) Explain about RS-232 interface.	5
15.	a) Explain the event timing diagram and difference between circuit switching and packet switching.	8 7
	b) Explain briefly CDMA.	3
16.	Explain bluetooth architecture in detail.	10
17.	Write short notes on :	
	i) Near-far problem	2
	ii) X.25	4
	iii) HDLC frame format	4