



FACULTY OF ENGINEERING

B.E. 2/4 (CSE) II – Semester (Main) Examination, June 2010

DATA COMMUNICATIONS

Time: 3 Hours]

[Max. Marks: 75

Instructions : 1) Answer all questions of Part – A.

2) Answer five questions from Part – B.

PART – A

(25 Marks)

1. Draw general block diagram of communication model. Explain with example. 3
2. What is refraction ? 2
3. What is half duplex transmission ? 2
4. Define flow control. 3
5. Define upstream and downstream with respect to subscriber lines. 2
6. How does ATM differ from frame relay ? 3
7. List and briefly define the services provided by LLC. 3
8. List some basic functions performed at MAC layer. 2
9. What is fading ? 2
10. What are some key disadvantages of infrared LANs ? 3



PART – B

(50 Marks)

11. Explain various levels of phase shift keying in transforming digital data into analog signals. 10
12. Explain in-detail about interfacing. 10
13. Explain about statistical time-division multiplexing. 10
14. a) Compare and contrast circuit switching and packet switching. 6
b) What services are provided by AAL ? 4
15. Explain LAN protocol architecture. 10
16. Write about IEEE 802.11 architecture and services. 10
17. Write short notes on **any two** of the following : 10
 - a) HDLC
 - b) XDSL
 - c) Stop-and -wait ARQ.