



**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.