FACULTY OF INFORMATICS

B.E. 2/4 (IT) II – Semester (New) (Suppl.) Examination, January 2013

Subject : 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 layers of OSI model?   (3)

2. What is the synchronous frame format?   (2)

3. What are the link configuration of HDLC?   (3)

4. What is meant by flow control?   (3)

5. What is the need for multiplexing?   (2)

6. Define logical connection.   (2)

7. Give topologies of LAN.   (3)

8. What is Gigabit Ethernet?   (2)

9. What is CDMA?   (3)

10. What are the functions of LLC and sublayers MAC?   (2)

PART – B (50 Marks)

11. What are significant transmission impairments? What are its effects on signal
    Transmission?   (10)

12. Explain and compare various flow control protocols.   (10)

13. Discuss ATM architecture, ATM cell header and transmission of ATM cells.   (10)

14. Explain CSMA/CD protocol in detail.   (10)

15. Explain the functions of MAC and physical layers of IEEE 802.11.   (10)

16. Describe Bluetooth architecture.   (10)

17. Write short notes on :   (10)
    a) Packet switching
    b) PCM and DM

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