

FACULTY OF INFORMATICS**B.E. 2/4 (IT) II – Semester (Main) Examination, May 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)**

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| 1. Define the following : | 2 |
| i) Protocol ii) Interface iii) Layer iv) Peer process | |
| 2. What are the advantages of layering? | 3 |
| 3. Explain RS232C interface. | 3 |
| 4. Define Piggy backing. | 2 |
| 5. Explain FDM. | 2 |
| 6. Give ATM cell format. | 3 |
| 7. Distinguish between transparent and non transparent bridge. | 3 |
| 8. Distinguish switch and Hub. | 2 |
| 9. Differentiate access point and portal. | 2 |
| 10. Define CSMA / CA. | 3 |

PART – B (50 Marks)

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| 11. Explain transmission impairments. | 10 |
| 12. Define send window and receive window. Give the efficiency calculation of sliding window protocol. | 10 |
| 13. Compare circuit switching, message switching and packet switching. | 10 |
| 14. Define CSMA/CD. Explain the efficiency calculation of Ethernet protocol. | 10 |
| 15. Explain Bluetooth architecture in detail. | 10 |
| 16. Explain HDLC. | 10 |
| 17. Write short notes on : | 10 |
| a) PCM and DM | |
| b) CDMA | |
