

**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  |    |

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