

FACULTY OF ENGINEERING

B.E. 4/4 (ECE) (I-Semester) Supplementary Examination, April 2006

DATA COMMUNICATION AND COMPUTER NETWORKS

Time : Three Hours]

[Maximum Marks : 75

Answer ALL questions of Part - A.

Answer FIVE questions from Part - B.

PART - A

(Marks : 25)

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| 1. What is meant by flow control ? | 2.5 |
| 2. What is the need for error control ? | 2.5 |
| 3. What is the need for routing table ? | 2.5 |
| 4. What is deadlock ? Mention types. | 2.5 |
| 5. Mention different network topologies. | 2.5 |
| 6. What is IEEE 802.2 ? | 2.5 |
| 7. What is UDP ? | 2.5 |
| 8. Differentiate between bridge and router ? | 2.5 |
| 9. What is the need for data compression ? | 2.5 |
| 10. Mention the principle of cell relay. | 2.5 |

PART - B

(Marks : 5 × 10 = 50)

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| 11. Write detailed notes on ARQ techniques. | 10 |
| 12. (a) Differentiate between packet switching and circuit switching. | 5 |
| (b) Give two solutions for deadlocks. | 5 |
| 13. Give the layout and explain protocol of IEEE 802.4 in detail. Give token and frame format. | 10 |
| 14. (a) Draw TCP/IP model and explain the function of each layer. | 5 |
| (b) What are the merits and demerits of TCP/IP model over OSI model. | 5 |

15. (a) List the type of channels used in ISDN. 5
(b) Differentiate between ISDN & BISDN. 5
16. Write short notes on :
- (a) STDM
- (b) Digital Private Branch Exchange.
17. Write notes on :
- (a) Principle of internetworking.
- (b) SNMP.