



Code No. : 5447/N

FACULTY OF INFORMATICS
B.E. 2/4 (IT) II Semester (New) (Main) Examination, May/June 2012
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. Define following :
 - a) Network architecture
 - b) Protocol
 - c) Peer process
 - d) Services. 2
2. Encode the following using :
 - a) HDB3
 - b) B8ZS
 - c) B-AMI. 3Bit stream : 1 0000 1 0000 0000 1
3. Distinguish synchronous and asynchronous transmission. 3
4. Define stop and wait protocol. 2
5. Give ethernet frame format. 3
6. Distinguish thick and thin ethernet. 2
7. Explain xDSL. 3
8. Give ATM architecture. 2
9. Distinguish LAN and WAN. 2
10. Define CDMA. 3



PART – B

(50 Marks)

11. Explain the different encoding schemes of 'digital data and analog signals'. 10
12. Explain : 10
 - i) CRC method
 - ii) Hamming method.
13. Explain frame relay in detail. 10
14. Explain about Gigabit ethernet. 10
15. Explain : 10
 - a) Bluetooth architecture
 - b) WLAN architecture.
16. Explain sliding window protocol and give its efficiency calculation. 10
17. Write short notes on : 10
 - a) ISO-OSI architectures
 - b) Circuit switching Vs packet switching.