

Code No: 55032

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech III Year I Semester Examinations, February/March - 2016****DATA COMMUNICATION AND COMPUTER NETWORKS****(Computer Science and Engineering)****Time: 3 hours****Max. Marks: 75****Answer any five questions
All questions carry equal marks**

1. With a neat diagram explain the OSI Layered architecture. [15]
- 2.a) What is the need of multiplexing channels? What kinds of techniques are available? Explain.
b) Explain various transmission media available. State advantages and disadvantages. [8+7]
- 3.a) Explain the features of IEEE 802.11 standard.
b) How does CRC (Cyclic Redundancy Code) provide error detection? How is the CRC checksum generated? [8+7]
- 4.a) What are backbone networks? Explain the need of backbone networks.
b) What are ATM networks? Explain the ATM architecture. [7+8]
- 5.a) What are the differences between IPv4 and IPv6 addressing schemes?
b) Explain in detail Internetworking. [8+7]
- 6.a) Discuss how congestion is controlled at transport layer.
b) Explain User Datagram Protocol (UDP) in detail. [8+7]
- 7.a) Discuss in detail File Transfer Protocol (FTP).
b) Give an overview of DNS in internet. [8+7]
8. Write short notes on:
a) Simple Network Management Protocol (SNMP)
b) Streaming Stored Audio/Video. [8+7]

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