

Code No: 55032

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, November - 2015

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.a) Explain TCP/IP protocol suite in detail.
b) Explain about analog-to-digital transmission. [8+7]
- 2.a) Explain the features of guided media.
b) Explain the mechanism of circuit-switched network. [7+8]
- 3.a) Explain in detail IEEE standard Ethernet.
b) Explain linear block codes with examples. [7+8]
- 4.a) Explain the architecture of a SONET system.
b) Explain the ATM, LAN architecture. [8+7]
- 5.a) Explain different classes of IPv4 classful addressing system.
b) Explain in detail the Internet Control Message Protocol (ICMP). [8+7]
- 6.a) Explain Quality of Services (QoS) in switched networks.
b) In detail explain Transmission Control Protocol (TCP). [8+7]
- 7.a) What are the services provided by the application layer to its corresponding layer?
b) Briefly explain the working of electronic mail. [7+8]
8. Write short notes on:
a) HTTP
b) Voice over IP. [8+7]

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