

Code No: 55032

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B. Tech III Year I Semester Examinations, December - 2014

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 the components of data communication system.
- b) Briefly describe the functions of each layer in the OSI model.
- 2.a) Explain the features of guided media.
- b) Explain the taxonomy of switched networks.
- 3.a) Explain the services provided by data link layer.
- b) What is error correction and detection? Using an example explain the CRC mechanism.
4. Write short notes on:
 - a) Backbone Networks.
 - b) Frame Relay.
- 5.a) Explain the transition from IPv4 to IPv6.
- b) Explain in detail the internet control Message Protocol (ICMP).
- 6.a) Explain QoS in switched networks.
- b) Explain in detail transmission control protocol.
7. Describe the message format and the message transfer and the underlying protocol involved in the working of the electronic mail.
- 8.a) Briefly explain the video compression techniques.
- b) Give a note on Voice over IP (VoIP).

---ooOoo---