(DCS 324)

B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the end of Third Year)

COMPUTER SCIENCE

Paper - IV : Data Communications

Time : 3 Hours   **Maximum Marks : 75**

Answer question No.1 is compulsory   *(15)*

Answer ONE question from each unit   *(4 × 15 = 60)*

1) Write a short notes on :

   a)   Protocol architecture.

   b)   NRZ – I.

   c)   Types of errors.

   d)   Sliding window protocol.

   e)   LANs.

UNIT - I

2) Explain TCP/IP architecture with neat diagram.

OR

3) Explain wireless transmission media in detail.

UNIT - II

4) What are signal encoding techniques? Explain Biphase techniques in detail.

OR

5) What is error detection method explain parity check method with an example.

UNIT - III

6) Discuss the following in detail.
   a)   Time division multiplexing.
   b)   Code division multiplexing.

OR

7) Explain stop-and-wait ARQ and Go-back-N ARQ protocols with diagrams.

UNIT - IV

8) Explain the key elements of LAN in detail.

OR

9) Explain logical link control protocols with neat diagrams.

φφφ