Code: CS5T3

III B.Tech - I Semester – Regular/Supplementary Examinations October 2018

COMPUTER NETWORKS
(COMPUTER SCIENCE AND ENGINEERING)

Duration: 3 hours   Max. Marks: 70

PART – A

Answer *all* the questions.   All questions carry equal marks

11x 2 = 22 M

1. a) Differentiate Internet and Intranet.

   b) Write the merit of packet switching.

   c) Mention a few protocols used in Application layer.

   d) What is structure of DNS address?

   e) What is the role of socket address?

   f) Is UDP reliable protocol? Justify.

   g) What is called Classful addressing?

   h) What is count-to-infinity problem?

   i) How does Block coding differ from linear code?

   j) Give some examples for unguided media.

   k) What is HDLC?

PART – B

Answer any ***THREE*** questions. All questions carry equal marks.

$$3 \times 16 = 48 \text{ M}$$

2. a) Explain in detail about TCP/IP protocol suite?   8 M

   b) Explain in detail about different types of network?   8 M

3. a) Justify that HTTP is a stateless protocol.   8 M

   b) Explain about FTP architecture with neat diagram.   8 M

4. a) Which protocol do you prefer to send sensitive messages? Justify and Explain with an example.   8 M

   b) Discuss sliding window protocol in congestion control mechanism.   8 M

5. a) Explain about Distance vector routing in detail.   8 M

   b) Explain in detail about ICMPv4.   8 M

6. a) What are the guided media used in physical layer and explain about Fiber optics.   8 M

   b) Differentiate flow control and error control and explain about any one of error detection mechanism.   8 M