

**B.Tech Sem – V (2007 Course) (Computer Engg.) : SUMMER - 2019**

**SUBJECT: COMPUTER NETWORK AND COMMUNICATION**

Day : Monday  
Date : 13/05/2019

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 80

S-2019-3064

**N. B. :**

- 1) **Q. No. 1** and **Q. No. 5** are compulsory. Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answer to both the sections should be written in **SAME** answer book.
- 3) Figures to the right indicate **FULL** marks.
- 4) assume suitable data, if necessary.

**SECTION - I**

- Q.1** a) Compare between x.25 and frame relay. (05)  
b) Discuss the working of data link layer in ATM. (05)  
c) List & discuss about wireless LAN protocols. (04)
- Q.2** a) What are the network layer design issues? Discuss each in detail. (07)  
b) Draw and explain TCP/IP reference model. (06)
- Q.3** a) Describe various framing methods in data link layer. (07)  
b) With neat sketch explain token ring system. (06)
- Q.4** a) Describe CSMA/CD protocols in detail. (07)  
b) Explain about the concept of FDDI. (06)

**SECTION - II**

- Q.5** a) Compare between virtual circuits and datagram subnet. (04)  
b) Explain how crash recovery is performed in transport layer. (05)  
c) Design and explain electronic mail architecture. (05)
- Q.6** a) Explain BGP protocol in detail. (07)  
b) Compare IPV<sub>4</sub> and IPV<sub>6</sub> (06)
- Q.7** a) What is socket? Explain various socket primitives used in client-server interaction. (07)  
b) Compare and contrast between TCP and UDP. (06)
- Q.8** a) Explain in detail working of DNS. (07)  
b) Write short notes on :- (06)  
i) Wireless Web  
ii) HTTP

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