B.Tech 6th Semester (CSE) F-Scheme
Examination, May–2017
COMPUTER NETWORK
Paper-IT-305-F

Time allowed : 3 hours]   *[Maximum marks : 100*

*Note : The students have to attempt **first compulsory** question and one question from each of the **four** sections. In all **five** questions are to be attempted.*

1. Explain the following :   20
   (a) Private Network
   (b) POP
   (c) Fast Ethernet
   (d) VLAN

Section-I

2. Give a complete description about ISO-OSI reference model.   20

3. Define Network Topology. Explain different types of Network Topologies in detail.   20

Section-II

4. Explain the following :   20
   (a) Internet Protocol
   (b) Transmission Control Protocol

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5. Describe the following : 20

   (a) DNS

   (b) IMAP

   (c) NNTP

   (d) HTTP

Section-III

6. (a) Define LAN. Explain in detail about features, components and usage of LAN's. 10

   (b) What do you understand about Layer 2 and 3 Switching. Explain. 10

7. Explain the following : 20

   (a) Routing

   (b) DQDB

Section-IV

8. Give a complete description about Synchronous Optical Network. 20

9. Describe the following : 20

   (i) Firewalls

   (ii) Proxy Server

   (iii) Windows NT/2000