

B.Tech. (EE) 5th Semester (F) Scheme (IT)

Examination, December-2018

COMPUTER NETWORKS

Paper-IT-305-F

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt five questions selecting one question from each section and question No. 1 is compulsory.

1. Short answer questions: 4×5=20
- (a) Explain various types of networks.
 - (b) What do you understand by subnet?
 - (c) Write note on congestion control.
 - (d) What are firewalls? Explain.

Section-A

2. Explain layering architecture of ISO-OSI model with services of each layer. 20

or

3. (a) Write note on ARPANET? 10
 (b) Explain various topologies of networks. 10

Section-B

4. What is history of TCP/IP Model? Explain its layered structure. 20

or

5. (a) Explain IP addressing with its classes. 10
 (b) Elucidate IPv4. 10

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Section-C

6. Explain working of following: 4×5=20
- (a) CSMA/CD
 - (b) DQDB
 - (c) Aloha
 - (d) Routers

or

7. Elucidate various LAN interconnecting devices. 20

Section-D

8. What do you understand by SDH/SONET? 20
- or
9. (a) Explain various remote monitoring techniques. 12
 (b) Write note on Windows NT/2000. 8

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