

B.TECH. SEM -VII BIO MEDICAL 2014 COURSE (CBCS) :
WINTER - 2017

SUBJECT: COMPUTER NETWORKS

Day: **Friday**
Date: **12/01/2018**

W-2017-2325

Time **02.30 PM TO 05.30 PM**
Max Marks: 60

N.B. :

- 1) All questions are **COMPULSARY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

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- Q. 1** a) State and explain four basic network topologies and write their advantages. (06)
b) Explain in details broadcast networks and point to point network. (04)

OR

- a) What are the design issues for layered structure? (06)
b) Explain peer-to-peer network. (04)

- Q. 2** a) Explain wired Transmission media in details. (06)
b) Explain Gigabit Ethernet. (04)

OR

- a) Explain wireless guided media in details. (06)
b) Explain in detail Fast Ethernet. (04)

- Q. 3** a) Explain data link protocol in details. (06)
b) Compare LANs and WANs. (04)

OR

- a) Explain sliding window protocol in details. (06)
b) Comment on channel allocation problem. (04)

- Q. 4** a) Explain design issues of network layer. (06)
b) Describe in detail RSVP. (04)

OR

- a) Explain distance vector routing in detail. (06)
b) Explain congestion control mechanism. (04)

- Q. 5** a) Explain TCP/IP protocol suit in details. (06)
b) Describe ARP in details. (04)

OR

- a) Explain TCP/IP addressing in details. (06)
b) Write a short note on RARP (04)

- Q.6** a) Explain cryptography algorithm. (05)
b) Compare symmetric key algorithm and public key algorithm. (05)

OR

- a) Explain with the help of example DES algorithm (06)
b) Write a short note on firewall. (04)

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