B.Tech. SEM -VII Bio Medical 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: COMPUTER NETWORKS

Day: Thursday	**S-2019-2850**	Time: 02.30 PM TO 05.30 PM
Date: 09/05/2019		Max Marks: 60

N.B. :
1) All questions are **COMPULSORY**.
2) Draw neat and labeled diagrams wherever necessary.
3) Figures to the right indicate **FULL** marks.
4) Assume suitable data if necessary.

Q.1 Draw OSI – reference model and explain any four layers. **(10)**

OR

Q.1 Differentiate OSI reference model and TCP/IP? **(10)**

Q.2 a) Explain unguided media in brief. **(06)**

b) Write short note on optical fiber cable. **(04)**

OR

Q.2 Draw block diagram schematic and standards of following networks **(10)** devices? **(Any Two)**
    i) Network Hubs
    ii) Routers
    iii) Gigabit Ethernet

Q.3 Explain the sliding window protocols in brief? **(10)**

OR

Q.3 Explain IEEE 802 standards for LANs and WANs? **(10)**

Q.4 Write a short note on: **(10)**
    i) Congestion Control
    ii) RSVP

OR

Q.4 a) Explain design issues of network layer? **(05)**

b) Explain link state routing? **(05)**

Q.5 Draw UDP and DHCP segment format and explain its various fields and **(10)** their use?

OR

Q.5 Explain : **(10)**
    i) IPV6
    ii) HTTP

Q.6 Explain cryptography algorithm with example? **(10)**
OR
Q.6 Explain public key algorithm. **(10)**

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