

B.Tech. SEM -VII Bio Medical 2014 Course (CBCS) : WINTER - 2018

SUBJECT: COMPUTER NETWORKS

Day: Friday
Date: 23/11/2018

W-2018-2585

Time: 02.30 PM TO 05.30 PM
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.
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Q.1 Explain categories of network and differentiate between them. **(10)**

OR

Q.1 Discuss the ISO-OSI layered model, bringing out the functionalities of each layer. **(10)**

Q.2 Explain different guided media in detail. **(10)**

OR

Q.2 Write short note on: **(10)**
i) Routers
ii) Fast Ethernet

Q.3 Explain in detail how sliding window protocol is used in HDLC for full duplex lines. **(10)**

OR

Q.3 Describe HDLC frame format in detail. **(10)**

Q.4 Describe leaky bucket algorithm and token bucket algorithm congestion prevention policies. **(10)**

OR

Q.4 What do you understand by routing? Explain any one routing algorithm in detail. **(10)**

Q.5 Explain the following : **(10)**

- i) ICMP
- ii) ARP
- iii) IGMP
- iv) UDP

OR

Q.5 Discuss the notation, representation and address space of IPV6. **(10)**

Q.6 a) What is meant by ciphering and deciphering? **(05)**

b) Explain firewall in detail. **(05)**

OR

Q.6 Describe the DES encryption process and the strengths of DES. **(10)**

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