

Roll No. \_\_\_\_\_

S-1127

**BCA IVth Semester Examination, 2018**

**Paper – IVth**

**[Data Communication & Computer Networks]**

**Paper Code-(BCA-804)**

**Time : 03 Hours]**

**[Maximum Marks : 70**

Note:- Attempt any Five Questions in all. All questions carries equal marks.

1. (a) What do you understand by data communication? List some common transmission media and describe any one of them in brief. 7
- (b) Explain the common network topologies with suitable example. 7
2. (a) Describe the OSI reference model with the function of each layer in detail. 7
- (b) Differentiate between connection-oriented and connection-less network with the suitable example. 7
3. (a) Explain the LAN, MAN and WAN with suitable example. 7
- (b) Write a comprehensive note on "X.25" including its packet format. 7

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4. (a) What is a repeater? What is its function? How is a repeater different than an amplifier? What is the difference between a switch and a hub? 7
- (b) What is routing? Explain any one of the unicast routing protocol. 7
5. (a) Distinguish between CSMA/CD and CSMA/CA 7
- (b) Differentiate between synchronous and asynchronous communication data transmission. 7
6. (a) Define the terms Internet, Intranet and Extranet. How the communication between the two computers is established in Internet? 7
- (b) Differentiate between Packet switching and Message switching with suitable example. 7
7. Write short notes on the following: 14
- (i) FTP
- (ii) IPv6
- (iii) TDMA
- (iv) UDP

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