

- (f) What is an allycast address? (1.5)
- (g) Differentiate between BOOTP and DHCP? (1.5)
- (h) What is the minimum and maximum size of a TCP Header? (1.5)
- (i) How HTTP is same as well as different from SMTP? (1.5)
- (j) How are options negotiated in TELNET? (1.5)

### PART-B

2. (a) Which, layers provide following services :
- (i) Route determination.
  - (ii) Flow Control.
  - (iii) Interface to transmission media.
  - (iv) Login-Logout procedures.
  - (v) Format and Code conversion services. (2)
- (b) What is spread spectrum? What are its design goals? (5)
- (c) Explain frame format of Ethernet. (5)
3. (a) Given the dataword 1010011110 and the divisor 10111. Show the generation of the codeword at sender site (using binary division). (5)
- (b) Differentiate between Aloha and Slotted Aloha? One hundred stations on a pure ALOHA network share a 1-Mbps channel. If frames are 1000 bits long, find the throughput if each station is sending 10 frames per second. (5)



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May 2023

B. Tech. (CE) – VIth Semester  
Computer Networks (PCC-CS-602)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.
2. Answer any four questions from Part -B in detail.
3. Different sub-parts of a question are to be attempted adjacent to each other.


PART-A

1. (a) What are the responsibilities of data link layer? 

(1.5)

(b) Why wireless LAN's cannot implement CSMA/CD? 

(1.5)

(c) Suppose a computer sends a frame to another computer on a bus topology LAN. The physical destination address of the frame is corrupted during the transmission. What happens to the frame? How can the sender be informed about the situation? 

(1.5)

(d) How does VLAN reduce network traffic? 

(1.5)

(e) What is vulnerable time? 

(1.5)

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