

Total No. of Questions : 8]

[Total No. of Printed Pages : 3

Roll No .....

**CS-602-CBGS**  
**B.Tech., VI Semester**  
Examination, December 2020  
**Choice Based Grading System (CBGS)**  
**Computer Networks**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

iii) In case of any doubt or dispute the English version question should be treated as final.

1. a) What are the two fundamental ways by which network performance is measured?
- b) What is meant by Piggybacking? What are its advantages and disadvantages?

Piggybacking

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PTO

[2]

2. Define subnetting? What is the network address in a class A subnet with the IP address of one of the Hosts as 25.34.12.56 and mask 255.255.0.0?

address

3. a) What is Go back N and selective repeat protocol?

Go back N and selective repeat protocol?

- b) How throughput is improved in slotted ALOHA over Pure ALOHA?

Pure ALOHA and slotted ALOHA?

4. a) How performance is improved in CSMA/CD protocol compared to CSMA protocol?

CSMA

- b) Explain Flow control and Error control.

Flow control and Error control

5. What do you mean by Routing? Explain Hierarchical, Broadcast and multicast routing.

Routing Hierarchical, Broadcast and multicast routing

[3]

6. Explain the following term.
  - i) Check sum
  - ii) FTP
  - iii) ICMP
  
7. a) Describe the working of Bellman Ford Algorithm using suitable example.  
  
b) Explain the UDP packet format.  
UDP packet format
  
8. Write a short notes. (any three)
  - a) TCP Header format
  - b) IP address
  - c) MAC Sublayer
  - d) Data link layer

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