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## **EX-7001-CBGS**

### **B.E. VII Semester**

Examination, December 2020

## **Choice Based Grading System (CBGS)**

### **Computer Network**

*Time : Three Hours*

*Maximum Marks : 70*

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

ii) All questions carry equal marks.

1. a) Define Computer network, LAN and WAN.  
b) A binary signal is sent over a 3-kHz channel whose signal to noise ratio is 20dB, What is the maximum achievable data rate.  
c) Compare Circuit, Packet and Message Switching.
2. a) Explain stop and wait protocol used in data link layer.  
b) What is network topology? Explain mesh, using ring and star topologies bringout their merits and demerits.
3. a) Explain CSMA/CD protocol, also give example.  
b) Differentiate between a connection oriented and a connectionless operation in reference to an internet.
4. a) Discuss about pure and slotted ALOHA.  
b) Distinguish between following
  - i) Static and dynamic routing
  - ii) Centralized and distributed routing

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5.
  - a) What is CSMA scheme? Discuss non-persistent, I-persistent and P-persistent CSMA with a diagram.
  - b) Explain use of different network devices.
  
6. Explain the briefly the following.
  - a) Routers
  - b) Modem
  - c) Switches
  - d) Gateway
  - e) Proxy server
  - f) Hub
  - g) Bridges
  
7.
  - a) How are transport layer protocol different from data link layer protocol?
  - b) Discuss the concept of E-mail and world wide web in with respect to application layer working.
  
8. Write short notes on any Two
  - a) Packet Radio Network
  - b) Transport Protocol TCP
  - c) Proxy Server Design
  - d) Mobile Networking

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