

Roll No

EX-7001 (CBGS)**B.E. VII Semester**

Examination, November 2019

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. 2
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. 5
c) Compare Circuit, Packet and Message Switching. 7
2. a) During the communication how the various layer exchange information in OSI Model. Describe with the help of suitable diagram. 7
b) Explain RS232C standards in detail. 7
3. a) Explain Sliding window protocol with suitable sketch. 7
b) Explain pure ALOHA and Slotted ALOHA protocol with suitable example. 7
4. a) Differentiate Connection oriented and Connectionless services. 7
b) Describe about CSMA/CD protocol with suitable sketch. 7

5. a) Explain with diagram the Architecture of LAN. 7
b) Explain ISDN system architecture with suitable sketch. 7
6. a) Discuss in detail about Broad band ISDN. 7
b) Explain in brief the session layer design issues. 7
7. a) Explain application and functions of Routers, Switches and Gateways. 7
b) What are different ways of sending electronic mail (E-mail)? Discuss with suitable diagram. 7
8. Write short notes on any Two 14
a) Packet Radio Network
b) Transport Protocol TCP
c) Proxy Server Design
d) Mobile Networking
