

*Total No. of Questions : 8]*

*[Total No. of Printed Pages : 2*

**Roll No .....**

## **CS-6004-CBGS**

### **B.E. VI Semester**

Examination, December 2020

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

### **Computer Networking**

*Time : Three Hours*

*Maximum Marks : 70*

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

ii) All questions carry equal marks.

1.
  - a) Discuss issues and its functionality of OSI models.
  - b) Give Ring and BUS Topology? Write its advantages and disadvantages.
2.
  - a) Explain Little's theorem. Give one example in support of this theorem.
  - b) Describe the working of a selective repeat protocol.
3. What is finite state models and Petri Net models?
4.
  - a) Compare the performance of stop and wait protocol and sliding window protocol.
  - b) Explain briefly:
    - i) Framing
    - ii) Error control

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5. a) What is Congestion control? And how it is implemented in network layer? What is the role of choke packet in managing congestion.  
b) Explain Dijkstra's algorithm with the help of example.
6. a) Write down the differences between IPv4 and IPv6.  
b) Give a brief note on mobile IP.
7. a) Explain transport layer multiplexing and demultiplexing.  
b) Write the HTTP request and HTTP response message format.
8. Write short notes on:
  - i) HTTP
  - ii) Packet format of UDP
  - iii) SMTP

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