



Roll No

PRESIDENCY UNIVERSITY  
BENGALURU

SCHOOL OF ENGINEERING

**SUMMER TERM / MAKE UP END TERM EXAMINATION**

Semester: Summer Term 2019

Date: 27 July 2019

Course Code: CSE 211

Time: 2 Hours

Course Name: Computer Networks

Max Marks: 80

Program & Sem: B.Tech & V Sem (2016 Batch)

Weightage: 40%

**Instructions:**

- (i) Read the question properly and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and Non-programmable calculators are permitted

**Part A**

Answer **all** the Questions. Each question carries **five** marks. (4Qx5M=20M)

1. Which types of LAN network no dedicated administrated are needed to run the network? Why?
2. Discuss about Sliding Window?
3. Differentiate between connection oriented and connection less protocols with examples
4. Do the following conversions:
  - a) Binary to Decimal Conversion  
01100101
  - b) Decimal to Binary Conversion:  
200

**Part B**

Answer **all** the Questions. Each question carries **ten** marks. (3Qx10M=30M)

5. a) Explain with neat diagram how the client and server communicate together for data transmission using Socket
- b) Define congestion control. Explain leaky bucket algorithm for variable length packets with an example

6. a) Define Virtual Circuit Switching? Explain the types
- b) Explain the Fiber Distributed Data Interface with neat diagram
7. a) Briefly explain Go-Back-n ARQ with neat diagram
- b) Create 4 subnets for the IP address 197.168.212.0/24 .Determine the number of hosts per subnet and Network ID

### Part C

Answer **both** the Questions. **Each** question carries **fifteen** marks. (2Qx15M=30M)

8. a) The 7 bit hamming code is received 1000100, Assume that is even parity check the received code is correct , if it is not correct ,locate the bit and find the correct one. (8 marks)
- b) Explain ISO/OSI model in detail with the help of proper diagram (7 marks)
9. a) Explain the UTP cable , STP and coaxial cable with diagram (10 marks)
- b) Discuss about the Star topology and mesh topology (5 marks)