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| Register Number:  Date: |



**ST JOSEPH’S COLLEGE (AUTONOMOUS), BANGLORE-27**

**BCA – IV SEMESTER**

**SEMESTER EXAMINATION JULY-2022**

**CA 4318 - Data Communication and Computer Networks**

**Time – 2 ½ Hrs MaxMarks-70**

**PART A**

**I Answer the following question 2\*10=20**

1. Expand ISO, ISDN.
2. What is networking? List the advantage of using networking.
3. List the difference between single bit and burst error.
4. What is routing? Write the difference between static and dynamic routing.
5. Expand FDDI, CSMA.
6. List the difference between frame and packet.
7. What is switching? What is its type?
8. What is Ethernet?
9. Expand OSPF, CIDR.
10. Compare and contrast MIME and FTP.

**PART B**

**II Answer any FIVE question 5\*6=30**

1. What is the difference between star and mesh topology?
2. Explain the working of coaxial cable.
3. Write in detail about wave division multiplexing.
4. Write a short note on Non-Persistent CSMA and 1 Persistent CSMA.
5. List the difference between pure and slotted ALOHA in detail.
6. Write a detail note on NFS protocol.
7. What is the difference between radio and infrared wireless transmission?

**PART C**

**III Answer any TWO question 2\*10=20**

1. Explain OSI model in detail.
2. Construct the even parity Hamming code word for a data byte 1001101.
3. Write a short note on
4. Backpressure algorithm.
5. **Go back N ARQ protocol.**