**St. Joseph’s College (Autonomous), Bangalore**

**Register No:**

**Date:**

**IV Semester Examination, April 2017**

**B C A**

**CA 4215 : Computer Networks - i**

**Time 3Hrs Max Marks 70**

**This paper contains 2 printed pages and 3 parts**

**PART-A**

**Answer all TEN questions 2 x10 = 20**

1. What is Data Communication?
2. List out the different between guided and unguided transmission media.
3. Differentiate single bit error and burst error.
4. Define redundancy. Explain any two error detection method.
5. What is the purpose of CSMA?
6. What is meant by channel allocation?
7. Define flooding.
8. Explain the fields of routing table.
9. Define flow control? List any one technique of flow control.
10. Define DNS? Mention the purpose of having DNS.

**PART-B**

**Answer any FIVE questions 6 x5 = 30**

1. Write a note on how checksum method is used to detect error?
2. Explain sliding window protocol of flow control.
3. Explain the working of wireless LAN.
4. Explain working of leaky bucket algorithm in detail.
5. Explain the working of simple mail transfer protocol.
6. List the difference between TCP/IP and OSI model.
7. Explain the sliding window method of flow control.

**PART-C**

**Answer any TWO questions 10 x2 = 20**

1. Write a note on cyclic redundancy check with example.
2. Explain the working of hamming code with the following example.

Sender 1111111

Receiver 0111111

1. What is shortest path routing? Explain Dijkstra’s algorithm by taking a suitable example