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Register Number:

DATE: **17-04-2017**

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

**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 computer networking? List the different type of networking.
2. What is data communication? List the different type of data communication.
3. What is error detection? List any one method of detecting and correcting error in the receiver end.
4. What is random access protocol? List the different type of random access protocol.
5. List any two differences between pure and slotted aloha.
6. What is routing? List the different type of routing.
7. What is congestion control? List the different type of congestion control.
8. What is connection management?
9. List any two services provided by transport layer.
10. List any two differences between error and flow control in transport layer.

**PART-B**

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

1. With neat diagram explain the working of coaxial cable.
2. Explain the working of sliding window protocol.
3. What is CSMA? Explain the working of CSMA.
4. Explain
5. 10base5.
6. 10base2.

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1. Explain the steps involved in dijkstra’s algorithm for finding the shortest path.
2. Explain leaky bucket algorithm.
3. Explain the working of SMTP.

**PART-C**

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

1. Explain the working of TCP/IP in detail.
2. Explain 5+4+1
3. Explain the working of fiber optics cable
4. List the difference between STP and UTP
5. Expand NVT.
6. 8+2
7. Illustrate the working of hamming code using the following example

sender=1010011and receiver==1010001.

1. Define routing.