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| **ST. JOSEPH’S COLLEGE (AUTONOMOUS), BANGALORE-27** |
| **B.C.A - II SEMESTER** |
| **Special Supplementary Examination, JUNE 2019** |
| **CS6115- COMPUTER NETWORKS** |
|  |  |  |  |  |  |
| **Time- 2 1/2 hrs** |  | **Max Marks-70** |
|  | Supplementary candidates only. |
| **This paper contains two printed pages and three parts** |

PART A

Answer all the questions (10\*2=20)

1. Define Networks. Mention its categories.
2. What is transmission media? Mention its types.
3. Define Multiplexing.
4. What is Error Control? Mention its methods.
5. Define piggybacking.
6. Define CSMA.
7. Give the frame format of Ethernet.
8. Explain 2 functionalities of transport layer.
9. Define Cryptography.
10. What is Compression?

PART B

Answer any 5 (5\*6=30)

1. Explain the layers of TCP/IP with a neat diagram.
2. Define Flow Control. Explain Go Back n for flow control.
3. Explain Slotted aloha with a neat diagram.
4. Define routing. Explain Hierarchical routing with an example.
5. Explain 802.3 (Ethernet) protocol with a neat diagram.
6. Write in detail about the services provided by transport layer.
7. Explain the concept of email in detail.

PART C

Answer any 2

1. Define Switching. Explain Circuit Switching with a neat diagram.
2. Define Error detection. Find checksum at sender and receiver with the following example. The data sent is 100100 and the generator is 1101.
3. Define Congestion Control. Explain Leaky bucket congestion control algorithm in detail.

**CS6115\_A\_19**