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

**31-05-2017**

**SPECIAL SUPPLEMENTARY EXAMINATION: MAY 2017**

**B.Sc Computer SCIENCE: VI Semester**

**CS 6112: Computer Networks**

**Time 3Hrs Max Marks 100**

ATTACH THE QUESTION PAPER WITH THE ANSWER SCRIPT

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

**PART-A**

**Answer all TEN questions 3 x10 = 30**

1. What is a network? Mention the different categories of networks.
2. Define Modulation.
3. Define Circuit Switching network.
4. What are the advantages and disadvantages of optical fiber?
5. What are the differences between network layer delivery and transport layer delivery?
6. What is a LAN? How is it different from WAN?
7. Write any three Quality Of Service parameters of Transport Layer.
8. Give any three differences between radio wave and micro wave.
9. Explain briefly about routers.
10. What is peer to peer networks?

**PART-B**

**Answer any FIVE questions 8 x5 = 40**

1. Expand and explain CSMA/CD.
2. Explain the working principle of twisted pair cable.
3. How is TCP/IP reference model different from OSI model?
4. Differentiate between broad band and base band cable.
5. Explain error detection and error correction techniques.
6. Explain the following terms
7. Hubs,
8. Switches
9. Bridges.
10. What is packet switching network? Explain the structure of a packe

**PART-C**

**Answer any THREE questions 10 x3 = 30**

1. What is topology? Explain ring, star and mesh topology.
2. Explain in detail the various transmission modes.
3. Explain the working of OSI model.
4. Explain Sliding Window Protocol with a diagram.
5. Write short notes on:
6. E-Mail
7. IP Address