

**ST. JOSEPH'S EVENING COLLEGE (AUTONOMOUS)**

**IV SEMESTER BCA EXAMINATIONS - APRIL 2019**

**COMPUTER NETWORKS**

**Duration: 2.5 Hours**

**Max. Marks: 70**

**SECTION - A**

**I) Answer any SIX of the following questions. (6x3=18)**

1. What is a LAN? Explain two topologies possible for LAN.
2. Distinguish between Multimode fiber and Single mode fiber.
3. Define Piggybacking. Give the advantage of using it.
4. What is guided and unguided systems?
5. What do you mean by a Routing Algorithm? Distinguish between adaptive and nonadaptive algorithms.
6. What is Congestion? List any two factors that cause congestion.
7. What is Three Way Hand shake protocol?
8. What is Domain Name System?

**SECTION - B**

**II) Answer any FOUR of the following questions. (4x8=32)**

9. Write a short note on Radio transmission and Microwave transmission.
10. Explain error detection and correction codes.
11. Explain Carrier Sense Multiple Access with Collision Detection.
12. Discuss Shortest Path Routing using directed graphs.
13. Explain Bluetooth with a neat diagram.
14. TCP/IP protocol

**SECTION - C**

**III) Answer any TWO of the following questions. (2x10=20)**

15. Explain the functions of layers of ISO/OSI Reference Model.
16. Explain DNS with a neat diagram.
17. Explain the GSM architecture.