FACULTY OF ENGINEERING

B. E.VI – Semester (CBCS)(CSE)(Main) Examination, May / June 2019

Subject: Computer Networks & Programming

Time: 3 Hours   Max. Marks: 70

Note: Answer all questions from Part – A & any five questions from Part – B.

Part – A (10 x 2 = 20 Marks)

1. Differentiate between virtual circuits and datagram subnets.   2
2. Define Buffering   2
3. What is Tunneling?   2
4. Why do we need computer network? Give any two applications of computer network. 2
5. Define upward multiplexing and downward multiplexing with examples.   2
6. Draw the diagram showing TCP Connection Release.   2
7. What do you mean by video on demand?   2
8. What is the significance of SNMP?   2
9. What is a Socket?   2
10. Define out of band data.   2

Part – B (5 x 10 = 50 Marks)

11. a) Explain similarities and differences between ISO-OSI and TCP/IP architecture. (5M)
    b) Illustrate Broadcast and Multicast routings.   (5M)

12. Illustrate Elementary socket system calls.   (10M)

13. a) Explain briefly about MIME.   (5M)
    b) Discuss on name servers.   (5M)

14. Explain about OSPF and BGP in detail.   (10M)

15. Explain TCP and UDP header format.   (10M)

16. a) What is the difference between Transport Layer and Network Layer? Discuss. (4M)
    b) Discuss congestion control in virtual circuit.   (6M)

17. Write short notes on: (4+3+3M)

    a) Fragmentation
    b) Telnet
    c) Internet super server.

****