Reg No.………
Name………….

# EIGHT SEMESTER B TECH DEGREE EXAMINATION

# ELECTRICAL AND ELECTRONICS ENGINEERING

# MODEL QUESTION PAPER

# 13.805.2 COMPUTER NETWORKS (E)

Time: 3 Hours                                                                               Maximum: 100 marks

## Part A  (Answer all questions from part A)

1. What is meant by  protocol?
2. What is meant by an interface in layered concept?
3. What is meant by farming?
4. Explain CSMA protocol
5. Differentiate between connection oriented and connectionless service
6. Give two advantageous of using fiber optic medium  for data communication
7. What is meant by static routing?
8. Give TCP header format
9. Give two features of IP V6 protocol
10. What is the use of SMTP protocol?

(10 x 2 = 20 marks)

## Part B (Answer any one question from each module (20x4=80))

### Module I

11. Explain in  detail about seven layer OSI architecture model                          (20)

OR

12. (a)Describe TCP/IP data model in detail                                       (12)
    (b)What are the main uses of computer networks?                               (8)

### Module II

13. a) What  are the various design issues of data link layer                       (10)
    b)Explain any two techniques used for farming                                 (10)

**OR**

14. a) Compare various data link layer flow control protocols                       (8)

    b) Explain main features of IEEE 802.3 protocol                              (12)

### Module III

15. (a)Compare virtual circuit and datagram subnets                              (10)

    (b) Explain shortest path routing algorithm with the help of an example        (10)

**OR**

16. Explain any two conjunction control algorithms                               (20)

**Module IV**

17.(a)Illustrate and explain UDP and its packet format                    (10)

   (b)Illustrate the features of FTP and its operations                    (10)

**OR**

18.(a) Discuss the need for name resolution and steps involved in it       (10)

   (b)Explain  public key cryptography algorithm                          (10)