



Reg. No. : .....

Name : .....

**Eighth Semester B.Tech. Degree Examination, December 2017**

**(2008 Scheme)**

**08.805B : NETWORK PROGRAMMING (F)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions, **each** question carries **4** marks.

1. Describe the protocol used for connection establishment.
2. Differentiate between IPv4 and IPv6 address system.
3. Explain the importance of Selective repeat ARQ.
4. What is purpose the 'don't fragment' and 'most fragment' bit ?
5. List the typical applications that can benefit more from the services of UDP than from those of TCP.
6. How can the RARP service be arranged to keep it available and reliable without incurring the cost of multiple, simultaneous replies ?
7. Give ARP Message format.
8. What are types of addressing ?
9. Brief about Random Early Discard.
10. Draw the sequence diagram for closing the connection.

**PART – B**

Answer **one full** question from **each** Module. **Each full** question carries **20** marks.

**Module – I**

11. Explain the routines involved in the fragmentation and reassembly of IP data grams. **20**

OR

12. With neat diagrams explain the four different cases in which the services of ARP can be used. How is ARP implemented ?

**20**

P.T.O.



**Module – II**

13. Discuss how TCP implements flow control in which the receive window controls the size of the send window with an example. **20**

OR

14. a) Explain the routines for urgent data processing in TCP. **10**  
b) With an example explain how to calculate checksum of a UDP use datagram. **10**

**Module – III**

15. a) With an example explain count to infinity problem. Suggest a solution to the problem. **10**  
b) How is route propagation implemented in OSPF ? **10**

OR

16. a) How is the socket level interfaces implemented ? **10**  
b) Discuss BGP in detail. **10**
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