

**FACULTY OF INFORMATICS**

B. E. 3/4 (I.T.) II - Semester (Old) Examination, December 2009/*Jan., 2010*

Subject : **Computer Networks**

Time : 3 Hours}

{Max. Marks: 75

**Note:** Answer all questions of Part - A and any five from Part-B.

**PART – A (25 Marks)**

1. Discuss the design issues for layers.
2. Draw 802.16 protocol stack.
3. What is jitter and how it is controlled ?
4. List the design goals of Network layer.
5. Write any four primitives of the transport service.
6. What is meant by upward multiplexing ?
7. Define HTTP.
8. Write about Name Servers.
9. Define the terms : (a) cryptology (b) Cryptanalysis
10. What is the purpose of application gateway in a firewall ?

**PART – B (5x10=50 Marks)**

- 11.(a) Write in detail about the OSI reference model . (7)  
(b) Explain the typical Blue tooth data frame. (3)
12. Discuss the techniques for achieving good Quality of Service.
13. Explain Internet Transport Protocol (TCP).
14. Write in detail about the architectural overview of WWW.
15. Explain how e-mail security is provided.
16. Write about routing in adhoc networks.
17. Explain the following :  
(a) NAT  
(b) RFC 822