FACULTY OF ENGINEERING

B.E. 4/4 (ECE) I-Semester (New) (Main) Examination, November 2013

Subject : Computer Networks

Time : 3 Hours   **Max. Marks: 75**

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

PART – A (25 Marks)

1. Mention uses of computer Networks.   (3)
2. Discuss the design issues for layer.   (3)
3. What is the use of MAC sublayer?   (2)
4. What is the need for sliding window protocol?   (2)
5. Distinguish between connection oriented and connectionless service.   (3)
6. What is Jitter and how its is controlled?   (3)
7. List the functions of Transport layer and Network layer.   (3)
8. Define terms: (a) Cryptology (b) Cryptanalysis   (2)
9. Differentiate between wired and wireless LAN.   (2)
10. Define public key and private key.   (2)

PART – B (50 Marks)

11.(a) Explain ISO-OSI model of Network architecture.   (5)
   (b) Compare TCP / IP and ISO - OSI model .   (5)

12.(a) Write about any one multiple access protocol.   (6)
   (b) Differentiate between packet switching and circuit switching.   (4)

13.(a) Discuss about two Routing algorithm with suitable examples.   (7)
   (b) Explain about Leaky Bucket Algorithm.   (3)

14.(a) Explain Internet Transport Protocol (TCP).   (6)
   (b) Explain IPV4.   (4)

15.(a) Write in detail architectural overview of WWW.   (5)
   (b) Distinguish between symmetric and asymmetric key cryptography.   (5)

16.(a) Explain any two of the six elementary data link layer protocol.   (5)
   (b) Write about HDLC protocol.   (5)

17. Write short notes on any two of the following: (10)
    (a) Internet working
    (b) Authentication protocols
    (c) Bluetooth

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