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Name

Reg. No.



**EIGHTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION, APRIL 2013**

**AI 09 802 – DATA AND COMPUTER COMMUNICATION  
(2009 Admissions)**

**Time : Three Hours**

**Maximum : 70 Marks**

Part A

Short answer questions (one/two sentences)

(All questions are compulsory)

1. What are the different data transmission methods?
2. What is meant by channel capacity?
3. Explain CDMA.
4. Differentiate MESH and RING topology.
5. Explain the functions of i) SMTP protocol ii) FTP protocol.

5x2marks=10marks

Part B

Analytical/Problem solving questions(Answer four questions out of six).

6. Explain the concept of data transmission using multi-service networks.
7. Differentiate synchronous and asynchronous transmission technique
8. Explain time division multiplexing.
9. Differentiate wireless LAN and wired LAN.
10. Explain congestion control in switched data network.
11. Explain Internet architecture.

4x5 marks= 20marks

PART C

Descriptive/Analytical /Problem solving questions

Answer all questions

Module I

12. (a) Briefly explain different encoding techniques.

OR

- (b) Explain different types of Guided transmission media.

**Turn over**

13.(a) Explain IEEE802.11

OR

(b) Explain different error detection methods.

14.(a) Briefly explain different types of topologies in network.

OR

(b) Explain different switching methods.

15.(a) Analyse different network security methods

OR

(b) Briefly explain (i) Transport Protocol

(ii) Application support Protocol

4x10 marks=40 marks

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