Roll No. OHIE COT MED ?

## MEDC-204(A)

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M. Tech. (Second Semester)

EXAMINATION, August, 2008

(Digital Communication)

NETWORK DESIGN TECHNOLOGY

(Elective-II)

[MEDC-204(A)]

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 40

Note: Attempt any five questions. All questions carry equal marks.

- 1. (a) Explain the various functionalities of layered model:
  - (i) TCP/IP/

(ii) OSI

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(b) What are the actual bit sequences transmitted over a link with a protocol supporting bit stuffing when the bit sequences are:

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- (b) What are the advantages and disadvantages of ICMP time stamp requests and reply messages?
- (3) (a) Draw and explain TCP state transition diagram.
  - (b)- Draw and briefly explain format of UDP message. Write the advantages and disadvantages of preassigned UDP port numbers.
- Briefly discuss an exterior gateway protocol. Also write BGP characteristics.
  - (b) What traffic congestion control functions have been defined for ATM network? What do they perform?
  - (5.) (a) Briefly discuss the parameters on which performance of LAN can be evaluated.
    - (b) Explain B-ISDN UNI reference configuration and physical realization.
  - 6. (a) What ATM features do the ITU-T signaling capability sets support? What additional signaling function do the ATM forum specifications provide?
    - (b) Briefly discuss the basic principles of multiprotocol over ATM."

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T. Write short notes on any three of the following :

- (a) X·25
- (b) IPV4 & IPV6
- (c) AAL -/
- (d) OSPF