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LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR
B.E. Semester IV
MID-SEM EXAMINATION (FEB - 2015)

DATE 28/2/2015   TOTAL MARKS : 30
TIME :10:00 A.M TO 11:30 A.M
BRANCH: CE

COMPUTER NETWORKING(CE 402)

Instructions:
1. Attempt all Questions.
2. Figures to the right indicate full marks.
3. Indicate clearly, the options you attempt along with its respective QueNo.
4. Answer with neat sketches/block diagrams/flow charts, as required.

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Q-1. a) Explain OSI model with its layer functionalities.   5

b) Explain the following protocols: 5
   1.POP 2.SMTP 3.HTTP 4.DHCP 5.NNTP

Q-2. a) What is the difference between pure ALOHA and Slotted ALOHA?   4

b) Explain network topologies.   6

OR

b) Explain different network devices.   6

Q-3. a) Describe TCP segment and explain significance of NVT in remote login.   6

b) Find the network address of the following IP address: 4
   1) 23.69.10.0   2) 160.37.11.7
   2) 112.33.7.5   4)198.168.1.2

OR

Q-3. a) Describe UDP segment and state the difference between a UA and MTA.   6

b) Find the subnetwork address for the following: 4
   1) IP address:141.181.14.16   Mask: 255.255.224.0
   2) IP address:124.30.22.14   Mask: 255.255.0.0
   3) IP address:212.14.12.56   Mask: 255.255.255.240