Enrolment No:

KADI SARVA VISHWAVIDYALAYA'S LDRP INSTITUTE OF TECHNOLOGY AND RESEARCH, GANDHINAGAR DEPARTMENT OF ELECTRONICS AND COMMUNICATION B.E. 6^{th} SEMESTER

MID SEMESTER EXAMINATION MARCH-2015

Subject Code: EC-606 Branch: EC Subject: Data Communication and Networking **Total Marks: 30** Date: 05/03/2015 Time: 12.00 to 01.30 PM **Instructions:** - All questions are compulsory. - Figures to the right indicate full marks. - Make suitable assumption, wherever necessary. Q.1(A)Draw the TCP/IP and OSI Reference Model. Explain Comparison between (05) TCP/IP and OSI Reference model. Difference between datagram subnet and virtual circuit. Q.1 (B) (05)What is Routing algorithm? Explain Properties and types of Routing algorithms List the Data Link Layer design issues. What is framing? List all methods (05) Q.2(A)used for framing and explain any two methods used for framing in detail. Explain ATM Reference Model in detail. Explain Dijkstra Algorithms. Q.2(B)(05)OR **Explain Hierarchical Routing Algorithms** Q.3(A)Explain the terms: LAN, MAN, WAN, Internet. (05)Write a short note on Error correcting and detecting codes. Q.3(B)**Explain Congestion Prevention polices.** (05)Explain Comparison between Optical Fiber and Copper wire cable.

*****All the Best****