Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

ME Semester –III Examination Dec. - 2011

Subject code: 732302 **Date: 08/12/2011**
Subject Name: Internetworking and Applications
Time: 10.30 am – 01.00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain in brief UNIX domain socket address structure.	**07**
	(b)	What are routing sockets? Explain various types of operations supported on routing sockets.	**07**
Q.2	**(a)**	Write a program to implement simple day time client/server.	**07**
	(b)	What is daemon process? Explain with the help of proper example.	**07**
		OR	
	(b)	Explain select & poll functions using suitable example.	**07**
Q.3	**(a)**	Explain various byte ordering functions.	**07**
	(b)	Write TCP echo server.	**07**
		OR	
Q.3	**(a)**	Write UDP echo server.	**07**
	(b)	What criteria should be considered for passing descriptors in UNIX?	**07**
Q.4	**(a)**	List the fields in file inetd.conf. What steps are performed by inetd daemon?	**07**
	(b)	Explain importance of POSIX signal handling.	**07**
		OR	
Q.4	**(a)**	With suitable diagram, explain association establishment and termination process for 4-way handshake.	**07**
	(b)	Explain the generic socket options. Explain any Four.	**07**
Q.5	**(a)**	What is race condition? Explain its function implementation.	**07**
	(b)	Differentiate between IPV4 and IPV6	**07**
		OR	
Q.5	**(a)**	What happens if a Unix domain server calls unlink after calling bind?	**07**
	(b)	Explain TCP and STCP socket functions.	**07**

****