Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – III • EXAMINATION – WINTER • 2013

Subject code: 732302 **Date: 28-11-2013**

Subject Name: Internetworking and Application

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)	Draw and explain TCP state transition diagram.	**07**
Q.2	**(a)**	What is the difference between select () and poll ()?	**07**
	(b)	What is the difference between read () and recv ()?	**07**
		OR	
	(b)	Write a program to implement simple day time client/server.	**07**
Q.3	**(a)**	List the fields in file inetd.conf. What steps are performed by inetd daemon?	**07**
	(b)	Explain generic socket options. Explain any four.	**07**
		OR	
Q.3	**(a)**	Explain syslogd daemon. How it is related with syslog functions.	**07**
	(b)	What are routing sockets? Which operations are supported on routing sockets?	**07**
Q.4	**(a)**	Explain the 'TIME WAIT' state.	**07**
	(b)	Why do I get EPROTO from read () ?	**07**
		OR	
Q.4	**(a)**	Explain with example how I use TCP_NODELAY.	**07**
	(b)	Why does it take so long to detect the peer died?	**07**
Q.5	**(a)**	List various I/O models under UNIX. Explain any two in detail.	**07**
	(b)	Explain address conversion functions that convert internet address between ASCII string and network byte ordered binary values.	**07**
		OR	
Q.5	**(a)**	What is the difference between SO_REUSEADDR and SO_REUSEPORT?	**07**
	(b)	Explain TCP and STCP socket functions.	**07**

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