

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**
