

V Semester B.Sc. (I.T.) Examination, June/July 2010
NETWORK PROGRAMMING

Time : 3 Hours

Max. Marks : 75

***Instruction** : Answer **all** questions from Part – A and answer **any five** questions from Part – B.*

PART – A

I. Answer **all** the questions :

(10×2+5×1=25)

- 1) What is an close system ?
- 2) What is a Router ?
- 3) What is the purpose of transport layer ?
- 4) Explain bind().
- 5) List out the types of messages.
- 6) Write ICMP Header.
- 7) What do you mean by socket address ?
- 8) Explain TCP buffer management.
- 9) What is send() and recv() ?
- 10) What is DNS ?
- 11) Explain the following :
 - a) ARP
 - b) TTL
 - c) MTU
 - d) ICMP
 - e) RTT.



PART – B

II. Answer **any five** questions :

(5×10=50)

- 1) Explain TCP/IP model.
 - 2) Explain Dotted-decimal notation.
 - 3) Explain different methods of ARP messages.
 - 4) Explain IP header details.
 - 5) Explain ICMP and path MTU discovery.
 - 6) Explain System calls :
Recv(), listen(), socket(), close(), getpeername().
 - 7) Explain the different fields of TCP header.
 - 8) Write the source code for “listener.c”.
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