

[This question paper contains 2 printed pages.]

8067

Your Roll No. ....

**B.Sc. (G) / II / NS**

**D**

COMPUTER SCIENCE – Paper IV

(Computer Networks and Internet)

(Admissions of 1999 and onwards)

Time : 3 Hours

Maximum Marks : 38

*(Write your Roll No. on the top immediately  
on receipt of this question paper.)*

*All questions are compulsory.*

*All parts of a question must be done together.*

1. (a) Name two automated tools used to probe Internet ?  
(1)
- (b) Give full form of HTML. (1)
- (c) What is Multicasting ? How is it different from  
Broadcasting ? (2)
- (d) Write a sample email to all your classmates inviting  
them for a party. (2)
- (e) How can a computer attach to a network that  
sends and receives bits faster than the computer's  
CPU can handle them ? (2)

P.T.O.

- (f) What is Ethernet ? What do you mean by 10 base t Ethernet ? (2)
2. (a) What is routing ? Differentiate between static routing and dynamic routing. (3)
- (b) What is stop and wait error recovery protocol ? Where is it used ? (4)
3. (a) What is a client server paradigm ? Explain major characteristics of servers and clients. (4)
- (b) Explain interactive and batch use of FTP. Give advantages of each. (3)
4. (a) Discuss TCP/IP model for computer networks. (4)
- (b) Distinguish between LAN, WAN and MAN. (3)
5. (a) The three shift registers and three exclusive OR units can be combined to compute a 16 bit CRC. Explain how ? (4)
- (b) Give salient features of static, dynamic and active documents. (3)