



Code No. : 5288/M

FACULTY OF INFORMATICS

B.E. 3/4 (IT) II Semester (Main) Examination, May/June 2012

COMPUTER NETWORKS

Time : 3 Hours]

[Max. Marks : 75

Note : Answer **all** questions from Part A, answer **any five** questions from Part B.



PART – A

(25 Marks)

1. Mention uses computer networks. 2
2. What are all the IP address classes and how IP address is expressed ? 3
3. What are the advantages and disadvantages of flooding ? 3
4. Differentiate between flow control and ordering of messages. 3
5. Define DNS. 2
6. What do you mean by digital signature ? 2
7. What are static and dynamic web documents ? 3
8. What is BOIP ? 2
9. Differentiate between wired and wireless LAN. 3
10. Define public key and private key. 2

PART – B

(50 Marks)

11. a) Explain ISO-OSI model of network architecture. 5
b) Compare TCP/IP and ISO-OSI models. 5
12. a) Give the classification of routing algorithms ? Explain any three of them in detail. 6
b) Draw the header format of IP protocol. 4



13. Explain E-mail Architecture and services. 10
14. a) Explain about elementary sockets. 5
b) Explain the functioning of DNS protocol. 5
15. a) What are all the techniques of encryption ? Write a public key cryptographic algorithm. 5
b) Write about SNMP and Network Management. 5
16. a) Explain any three congestion control algorithm. 6
b) Explain about leaky bucket algorithm. 4
17. Write short notes on:
- a) Tunneling. 3
b) Internetworking. 4
c) Non-Blocking I/O. 3