Total No.	of	Questions	:	12]
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[4758] - 101 T.E. (IT)

## **COMPUTER NETWORK TECHNOLOGY**

(2008 Course) (Semester - I)

Time: 3 Hours [Max. Marks: 100

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate answer books.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Use of Calculator is allowed.
- 5) Assume suitable data if necessary.

## **SECTION - I**

- **Q1)** a) What is packet switching? Write advantages and disadvantages of packet switching. [10]
  - b) Explain load shedding. How it is useful? Discuss its packet discard policies. [8]

OR

- Q2) a) What is fragmentation? Why it is required? List factors of fragmentation. Explain Transparent fragmentation and Non-Transparent fragmentation. [10]
  - b) Write difference between static routing and dynamic routing. [8]
- **Q3)** a) Explain DHCP client server communication with help of diagram. [8]
  - b) For a given class B network IP 175.165.0.0. with default subnet mask, how you can divide network in 10 small networks. How many hosts can be accommodated in each sub-network? [8]

OR

- **Q4)** a) With the help of diagrams explain IPv4 header format in details. [8]
  - b) Define subnetting and super netting? A company is granted the site address 201.70.64.0 (class C). The company needs six subnets. Give the range IP in each subnet. [8]

Q5)	a)	What is a socket? What are types of socket? Explain socket and bir primitives used in TCP client server communication.	nd <b>8]</b>
	b)	What is mean by half-open connection? Explain transport lay connection relese scenarios.	er 8]
		OR	
Q6)	a)	Write difference between TCP and UDP.	8]
	b)	What is silly window syndrome? Explain solution for this.	8]
		<u>SECTION - II</u>	
Q7)	a)	Explain in details persistence and non-persistence connection HTTP.	of <b>8]</b>
	b)	Explain the types of web documents.	8]
		OR	
Q8)	a)	Explain why DNS is required? Explain DNS resolution methods. [8]	8]
	b)	What is FTP? Which port no are used for data and controconnection?	ol <b>8]</b>
Q9)	a)	Write difference between SIP and H.323.	8]
	b)	Why multimedia networking is important? Explain with help of end-to-end delay and delay jitter.	o- 8]
		OR	
Q10	<b>)</b> a)	Explain functions of media player in details?	8]
	b)	Explain Accessing Audio and Video from a Streaming Server to Help Application.	er 8]

**Q11)**a) Explain Fast Ethernet in detail.

[8]

b) With help of diagram explain functions ATM layers and also explain cell format of ATM. [10]

OR

## Q12) Write a short note on any three:

[18]

- a) Bluetooth protocol stack.
- b) B-ISDN.
- c) Frame relay Vs X.25.
- d) Gigabit Ethernet.

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