GUJARAT TECHNOLOGICAL UNIVERSITY M.E. SEMESTER III–EXAMINATION – WINTER 2015	_
Name: INTERNETWORKING AND APPLICATIONS 30 PM to 5:00 PM Total Marks: 70	
Attempt all questions. Make suitable assumptions wherever necessary.	
(i) Draw and explain two tier architecture. Also, state drawbacks of it.(ii) Explain xDSL technology in detail.What is DNS? Explain how it can be used to connect server.	04 03 07
What is the need of ARP? Explain working of ARP using an example. Draw architecture of SMDS. Explain every component and interface of SMDS. OR	07 07
How ISDN can be used to provide data service? Explain BRI & PRI along with its sub channels in detail. Also state applications of ISDN.	07
Differentiate IPv4 and IPv6 Protocols. Explain with diagram. 1) Table driven IP routing 2) Hierarchical Routing OR	07 07
What is IP datagram? Explain options of IP datagram in detail. What is virtual network? Give examples of it. Also explain unreliable delivery and connectionless delivery.	07 07
Which properties should TCP possess to provide reliable delivery services? State the process to open and close a connection using TCP. (i) Discuss direct delivery in routing. (ii) Describe how socket programming is useful to connect server and client process.	07 04 03
	GUJARAT TECHNOLOGICAL UNIVERSITY M.E. SEMESTER III-EXAMINATION – WINTER 2015 code: 2732302 Date: 04/12/20 Name: INTERNETWORKING AND APPLICATIONS 10 PM to 5:00 PM Total Marks: 70 ions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. (i) Draw and explain two tier architecture. Also, state drawbacks of it. (ii) Explain xDSL technology in detail. What is DNS? Explain how it can be used to connect server. What is the need of ARP? Explain working of ARP using an example. Draw architecture of SMDS. Explain every component and interface of SMDS. OR How ISDN can be used to provide data service? Explain BRI & PRI along with its sub channels in detail. Also state applications of ISDN. Differentiate IPv4 and IPv6 Protocols. Explain with diagram. 1) Table driven IP routing 2) Hierarchical Routing OR What is IP datagram? Explain options of IP datagram in detail. What is virtual network? Give examples of it. Also explain unreliable delivery and connectionless delivery. Which properties should TCP possess to provide reliable delivery services? State the process to open and close a connection using TCP. (i) Discuss direct delivery in routing. (ii) Describe how socket programming is useful to connect server and client

OR

Discuss need and working of simple network management protocol.

Explain TCP segment format in detail.

(i) Discuss indirect delivery in routing.

What is IDS? Explain working of IDS.

List types of IDS. Explain any two.

Differentiate SMTP and POP.

(ii) Justify need of File Transfer Protocol.

Q.4

Q.5

Q.5

(a)

(b)

(a)

(b)

(a)

(b)

07

04

03

07

07

07

07