

DHARMSINH DESAI UNIVERSITY, NADIAD FACULTY OF TECHNOLOGY

B.TECH. SEMESTER V [Information Technology]

SUBJECT: (IT-505) Computer And Communication Network

: Third Sessional Examination Seat No.

: 09/10/2013 :Wednesday Date Day

: 11:15 to 12:30 Time Max. Marks : 36

INSTRUCTIONS:

- Figures to the right indicate maximum marks for that question.
- 2. The symbols used carry their usual meanings.
- 3. Assume suitable data, if required & mention them clearly.

4. D	raw neat sketches wherever necessary.				
Q.1	Do as directed.	[12]			
A	Give differences between TCP and UDP.				
В	What is socket? List Berkley socket primitives.				
C					
D		[2] [1]			
E	E RIP is based onand OSPF is based on(Link state routing/multicast routing/ distance vector				
	routing /broadcast routing/BGP).	[1]			
F	F Which of the following is protocol data unit (PDU) for the application layer in the internet stack?				
	(A)Segment (B) Datagram(C) Message (D) Frame.				
G	1 7 1	[1] [1]			
Н					
Q.2		[12]			
a	using Three-way-handshake.	[6]			
h		[6]			
b		[6]			
([6]			
	06320028 00060008 10200000 500107F8 03200000				
	(1) What is the source port number?				
	(2) What is the destination port number?				
	(3) What is the sequence number?				
	(4) What is the type of segment?				
	(5) What is the length of header?				
	(6) What is the window size?				
Q.3 (a)	-	[6]			
	of the slow start phase 2 MSS and the threshold at the start of the first transmission is 8 MSS assume that				
	the time out occurs during the fifth transmission Find the congestion window size at the end of tenth transmission.				
Q.3(b)		[6]			
Q.S(D)	-OR-	լսյ			
Q.3(a)					
QIO(u)	maximum segment size (MSS) is 1460 bytes, the initial congestion window is 1460bytes (1 MSS), and				
	the initial slow-start threshold is 500 MB.				
	(I) How many TCP segments will it take to send the 21,000 bytes?	[2]			
	(II) How many RTT rounds will it take to send the 21,000 bytes, ignoring connection setup?	[2]			
0.22	(III) How large (in segments) will the congestion window be in the last round?	[2]			
Q.3 (b)	(I)What are TSAP and NSAP explain with diagram?	[4]			

(II) Why shouldn't we set the TCP timeout value to be extremely large to avoid early timeouts?

[2]