Durati	OII . 3 HIS	89	IVIAXIIIIUIII IVIAI KS. OU	
Note:	i) Question no 1 is compulsory	57		
	ii) Solve any three out of remaining quest	ions		
i	ii) Figure to the right indicate full marks			
	997			
Q1 Ans	swer the following questions (Any four)			[20]
a)	What is the difference between switch a	ind hub?		
b)	What do we mean IP is best effort delive	ery service?		
c)	What is bit stuffing? Explain with examp	leo So		
d)	Who decides the senders window size?	Justify your answer.		ST
e)	If UDP is so powerless, why would a pro-	cess want to use it?		
	What is congestion? Is it necessary to cont	rol congestion? Com	pare open loop and clo	(- 1 /
conges	tion control.			[10]
Q2 b. \	What is an open system? Explain OSI mod	el by drawing sende	r, receiver and an inter	mediate
	nd various communication between them			[10]
Q3 a. V	What is transmission impairment? Explain	in details.		[10]
Q3 b. \	What is classful addressing? Explain variou	is types of IP address	s classes in details.	[10]
		13h, 39p.		
Q4 a.	What is flow control? Explain GO-Back-N	and Selective repeat	: ARQ.	[10]
Q4 b.	What is ALOHA? Compare slotted and pur	e ALOHA.		[10]
Q5 a. '	What are ways to improve QoS? Explain a	nyone.		[10]
Q5 b.	Explain TCP header in details.			[10]
Q6 wri	te a note on any two.			[20]
	a) Subnetting and Super netting	. 43V .		
	b) Network topologies with advantages	and disadvantages.		
	c) TCP services			
		2		