(i)	Pr	inted Pages: 2	Roll No					
(ii)	Qu	estions : 9	Sub. Code:	0	9	4	7	
		experiences	Exam. Code:	0	0	3	1	
		Bachelor of Comp	puter Applications 5th S (1129)	eme	ster			
			UTER NETWORKS					
		Pap	er—BCA-16-501					
Tin	ne All	owed: Three Hou	ırs] [Maxir	num	Ma	rks :	: 65	
No	te :-	- Attempt one que Section E is com	estion each from Section pulsory.	ıs A,	В, С	and	ID.	
			SECTION—A					
1.	(a)	Explain the feat	ures of LAN, MAN and	WA	N.		7	
	(b)	Draw and describe various layers of TCP/IP model. How						
		is it different from OSI reference model?						
2.	(a)							
		benefits over guided media? Explain the working of microwave						
		transmission.	Name of the last				7	
	(b)	What is multiplexing in computer networks? Explain and						
		differentiate bety	ween FDM and WDM in	brie	f.		6	
		S	ECTION—B					
3.	(a)	What are the des	gn issues of Data Link Layer? 7					
	(b)	What is an error	error in Computer Networks ? Explain CRC					
		technique with th	e help of suitable examp	le.			6	

4.	(a)	What are the various assumptions of static clallocation?	nanne 4		
	(b)	What are the Sliding Windows Protocols? E Go-Back-N and Selective-Repeat Sliding Windows Protocols along with their advantages and disadvantages.	•		
		SECTION—C			
5.	(a)	What are the various design issues of Network Lay	er?		
			9		
	(b)	What do you understand by Subnetting?	4		
6.	(a)	What is congestion? What are the factors that lead congestion in a network? Explain the principles of congestic control.			
	(b)	Explain broadcast and multicast routing.	7		
	(0)	SECTION—D			
7.	(a)	Explain DNS and DNS servers.	6		
	(b)	Explain terms HTTP and Network Security.	7		
8.	(a)	Write short notes on the following terms:			
٠.	(4)	(i) World Wide Web			
		C)	×2=6		
	(b)	Explain the architecture and services of an E-mail Sy	7.7		
		SECTION—E			
9.	Atte	empt all questions:			
	(a)	Define modulation.	2		
	(b)	What is IEEE 802.3 ?	2		
	(c)	What is an IP address ?	2		
	(d)	What are the light emitting sources used in Fiber Op			
	(-)		2		
	(e)	What are the limitations of SMTP?	2		
	(f)	What are the advantages of flooding?	3		