(i)	Prin	nted Pages : 2 Roll No		
(ii)	Que	estions : 9 Sub. Code:	0 9	4 7
		Exam. Code:	0 0	3 1
	В	Bachelor of Computer Applications 5th So (1129)	emester	
		COMPUTER NETWORKS		
		Paper—BCA-16-501		
Time	Allo	owed: Three Hours] [Maxin	num Mar	·ks : 65
Note	:-	- Attempt one question each from Section Section E is compulsory.	as A, B, C	and D
		SECTION—A		
1.	(a)	Explain the features of LAN, MAN and	WAN.	7
	(b)	Draw and describe various layers of TCF	P/IP mode	l. How
	¥1	is it different from OSI reference model	?	6
2.	(a)	What is the meaning of unguided transmiss benefits over guided media? Explain the work transmission.		
	(b)	What is multiplexing in computer network	rks?Expl	ain and
		differentiate between FDM and WDM in	ı brief.	6
		SECTION—B		
3.	(a)	What are the design issues of Data Link	Layer?	7
	(b)	What is an error in Computer Networks	s? Expla	in CRO
		technique with the help of suitable examp	ple.	6

4.	(a)	What are the various assumptions of static allocation?	channel 4
	(b)	What are the Sliding Windows Protocols?	Explain
	()	Go-Back-N and Selective-Repeat Sliding Windows P	
		along with their advantages and disadvantages.	9
		SECTION—C	
5.	(a)	What are the various design issues of Network La	ayer?
			9
	(b)	What do you understand by Subnetting?	4
6.	(a)	What is congestion? What are the factors that	lead to
		congestion in a network? Explain the principles of cor	ngestion
		control.	6
	(b)	Explain broadcast and multicast routing.	7
		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:	
		(i) World Wide Web	
		(ii) File Transfer Protocol.	3×2=6
,	(b)	Explain the architecture and services of an E-mail S	System.
			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 (Optics?
			2
	(e)	What are the limitations of SMTP?	2
	(f)	What are the advantages of flooding?	3
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