(i)	Prin	ted Pages: 2	Roll No
(ii)	Ques	Stions :9 Sub Exam	o. Code: 0 9 4 7 o. Code: 0 0 3 1
	В	achelor of Computer Appl 1128 COMPUTER NE Paper: BCA-	TWORKS
Time Allowed: Three Hours] [Maximum Marks: 6			
Note	:-		all, including Question No. 9 sory and selecting one question
1.	(a)		of Networks based on Scale.
	(b)		Model with functioning of each 6,7
2.	(a) (b)	Write a detailed note on formal (i) Twisted pair (ii) Co-axial cable Explain in detail: (i) Circuit Switching (ii) Message switching. UNIT—	
3.	(a)	What are the functions of dissues related to services	ata link layer? Explain the design provided to network layer.
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(b)		1				
	6,7					
Exp	lain the following Error Detection and Correction codes:					
(i)	Hamming Code					
(ii)	Cyclic Redundancy Code. 13					
UNIT—III						
		1				
(a)	Explain the Shortest Path routing algorithm. Illustrate with example.	1				
(b)	What are Principles of Congestion Control? Explain Leaky Bucket Algorithm. 6,7					
UNIT—IV						
(a)	Describe the Architecture of Email System.					
(b)	How is information found on World Wide Web? 6,7					
(a)	Write a note on Domain name System.					
(b)	Explain the Encyption Model and methods of encryption used in it. 6,7					
UNIT—V (Compulsory Question)						
(a)	List the factors why companies opt for networks.					
(b)	List advantages of fibre over copper wire.					
(c)	Distinguish between Broadcast and Point-to-Point networks.					
(d)	What is the function of Internal Layer of TCP/IP Reference Model?					
(e)	What is Hamming Distance?					
(f)	Draw Internet Protocol Header. 13					
	Exp (i) (ii) (ii) Wh issu (a) (b) (a) (b) (a) (b) (c) (d) (e)	what are the problems associated with each method. 6,7 Explain the following Error Detection and Correction codes: (i) Hamming Code (ii) Cyclic Redundancy Code. 13 UNIT—III What are the functions of Network Layer? Explain the Design issues associated with network layer. 13 (a) Explain the Shortest Path routing algorithm. Illustrate with example. (b) What are Principles of Congestion Control? Explain Leaky Bucket Algorithm. 6,7 UNIT—IV (a) Describe the Architecture of Email System. (b) How is information found on World Wide Web? 6,7 (a) Write a note on Domain name System. (b) Explain the Encyption Model and methods of encryption used in it. 6,7 UNIT—V (Compulsory Question) (a) List the factors why companies opt for networks. (b) List advantages of fibre over copper wire. (c) Distinguish between Broadcast and Point-to-Point networks. (d) What is the function of Internal Layer of TCP/IP Reference Model? (e) What is Hamming Distance?				