Reg. No.	
Neg. 110.	

## B. Tech. DEGREE EXAMINATION, NOVEMBER 2019 Fourth Semester

	For the candidates admitted during the ac-	TIER NETWORKS ademic year 2013 - 2014 and 2014 - 2015)	
Note: (i) (ii)	Part - A should be answered in OMR sheet over to hall invigilator at the end of 45th minu Part - B and Part - C should be answered in	within first 45 minutes and OMR sheet should be in	anc
		Max. Marks	s: 1
Time:	Three Hours		
	PART – A (20 Answer AL	x 1 = 20 Marks) L Questions	
1.	A group of computers and other devices co	onnected together is called	
	(A) Networking	(B) Data communication	
	(C) Bridge communication	(D) Circuits	
	1. James to OSI model		
2.	layer do not belong to OSI model.  (A) Physical	(B) Datalink	
	(C) Internet	(D) Transport	
	(C) Internet		
3.	A virtual local area network is configured		
	(A) Hardware	(B) Wires	
	(C) Software	(D) IP address	
4.	Communication between a computer and	a keyboard involves a transmission.	
	(A) Automatic	(B) Full duplex	
	(C) Simplex	(D) Half duplex	
-	to a data that a control		
٥.	is a data link protocol (A) Simulation	(D) Point to point	
	(C) IP	(B) Point-to-point (D) IPv4	
	(5) 2	(2) 1111	
6.	A pattern of 0's and 1's can be represente	ed as	
	(A) Cyclic code	(B) Modulo-2	
	(C) Polynomial	(D) Coefficient	
7.	A Bluetooth network is called		
	(A) Piconet	(B) Scatternet	
	(C) Bluenet	(D) Telnet	
8.	regenerates a signal annual		
0.	(A) Repeater	gments of LAN and has no filtering capability	y
	(C) Router	(B) Bridge	
0		(D) Switches	
9.	Circuit switching takes place at	ayer.	
	(A) Data link (C) Network	(B) Physical	
	( ) INCLINUIR	(D) T.	

(D) Transport

10. is a dynamic mapping pr	otocol in which a physical address is found for a given	
logical address.	(B) RARP	23. Discuss UDP header format with suitable diagram.
(A) ARP (C) ICMP	(D) IGMP	24. State and explain sender side algorithm for stop and wait ARQ.
	annual using path vector muting	
is an interdomain routing p     (A) BGP	(B) OSPF	25. How will you avoid congestion in networking?
(C) RIP	(D) MOSPF	26. Write briefly about cryptography.
12. is the combination of IP add	ress and port number.	27. Classify various DNS used in the internet.
(A) Socket address	(B) Transport address	
(C) Network address	(D) Logical address	PART − C (5 × 12 = 60 Marks) Answer ALL Questions
13. The subnet mask 255.255.0.0 belong	s to class (B) B	AN PUBLISHED STORY
(A) A (C) C	(D) D	28. a. Explain about various layers in ISO/OSI reference model layers with suitable sketch.
(6)	- 35/. 5/	(OR)
14. MTU refers to		b. Explain IEEE 802.11 MAC sublayer standard with necessary diagrams.
(A) Minimum transfer unit	(B) Message transfer unit (D) Maximum transfer unit	20 a Empleia hamming and providence during the 20 at 2
(C) Material transfer unit	(b) Miximum dansies din	29. a. Explain hamming code procedure to detect errors with suitable example.
15. is the reliable protocol.		(OR)
(A) IP	(B) UDP	b. Discuss about the following methods
(C) TCP	(D) SCTP	(i) CSMA/CD (ii) CSMA/CA
16. The communication in TCP is		(ii) CSMACA
(A) Simplex	(B) Half-duplex	30. a. Categorize and explain various IPv4 addresses with proper notations.
(C) Full-duplex	(D) Duplex	(an)
and a series of the state of th	r program used to retrieve the document	(OR)  b. Explain about distance vector routing with neat diagram.
17. In URL, the is the client serve (A) Path	(B) Protocol	o. Laplant about distance rector footing with the diagram.
(C) Host	(D) DNS	31, a. Discuss about transmission control protocol with following key elements
***		(i) TCP services
18. A "SNMP" agent can send me		(ii) TCP features (iii) TCP connection
(A) Response	(B) Get request (D) Reply request	(iii) Tel sometion
(C) Set request	(D) Reply request	(OR)
9. PoP3 protocol is responsible for		b. List out the services and features of SCTP. And also explain the comparison between TCP
(A) Sending text message	(B) Sending video	and SCTP.
(C) Sending audio	(D) Queuing the message	32. a. Write short notes on
0. Sending a file from PC's primary mem	ons to another computer is	(i) TELNET
(A) Uploading	(B) Downloading	(ii) MIME
(C) Logging on	(D) Hanging	(iii) SMTP
		(OR)
	5 × 4 = 20 Marks)	b. Discuss about asymmetric key cryptographic algorithms.
Answer AN	Y FIVE Questions	
List the type of topologies with diagra	en.	****
With neat diagram, explain data comm	nunication components.	DAMCHON.
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