## 10000EC407122002

Re	eg No		W EDUCATION PE	
	6	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	图割	
Sevent	th Se	emester B.Tech Degree Regular and Supplementary Examination December 2021 (2	2015 Scheme)	
		No mean of		
		TENOTHUM!		
		Course Code: EC407		
		Course Name: COMPUTER COMMUNICATION		
M	Max. Marks: 100 Duration:			
		DADT A		
		PART A  Answer any two full questions, each carries 15 marks.	Marks	
1	a)	Explain the functions of OSI model with a neat diagram.	(10)	
•	b)	Differentiate synchronous transmission from asynchronous transmission.	(5)	
2	a)	Explain with a neat sketch (a) Coaxial cable (b) Fiber optic cable.	(6)	
	b)	Explain using flow diagram how the collision is avoided in CSMA/CA.	(9)	
3	a)	Explain about TCP/IP protocol suite.	(8)	
	b)	Discuss IEEE802.3 MAC frame format in detail .What are the restrictions	(7)	
		imposed on minimum and maximum lengths of 802.3.	(.)	
		PART B		
		Answer any two full questions, each carries 15 marks.		
4	a)	Explain about ICMP protocol. Explain how the error reporting is possible in	(8)	
		ICMP.		
	b)	Explain the limitations of distance vector protocol. Explain the solutions to	(7)	
.)		overcome these limitations.		
. 5	a)	Explain the fuctionalities of the network layer. Also explain the IPv4 packet	(10)	
		format with a neat sketch.		
	b)	List the different networking devices in detail.	(5)	
6	a)	Explain routing table. State the difference between static routing table and	(7)	
		dynamic routing table		

PART C

(8)

(8)

b) Explain the Border Gateway Protocol (BGP) protocol with an example.

Answer any two full questions, each carries 20 marks.

7 a) Explain PGP and TLS in detail. (6)b) Explain how Telnet establishes connection to a remote system. (6)

c) With a suitable diagram explain the features of UDP.

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8	a)	Explain the handshake protocol used in SSL.	(7)
	b)	Explain about Firewall. Differentiate Packet-Filter Firewall from Proxy	(8)
		Firewall.	
	c)	Explain the services provided by IPsec in detail.	(5)
9	a)	Explain AH protocol in detail using suitable diagram.	(6)
	b)	Explain the three-way handshaking mechanism in TCP protocol.	(9)
	c)	State the limitations of Firewall.	(5)
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