A A7402

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

THIRD SEMESTER MCA DEGREE EXAMINATION, DECEMBER 2017

Course Code:RLMCA 201				
Course Name: COMPUTER NETWORKS				
Max. Marks: 60 Duration: 3 Hours				
	PART A Answer all questions, each carries3 marks.	Marks		
1	Explain the Basic Communication Model with neat diagram.	(3)		
2	Differentiate between Persistent and non-persistent connection.	(3)		
3	What are the transport layer services? Explain Multiplexing and Demultiplexing.	(3)		
4	Compare IPv4 and IPv6. How IPv6 solve the problem of IPv4 exhaustion?	(3)		
5	A series of 8-bit message blocks to be transmitted across a data link using CRC	(3)		
	for error detection. A generator polynomial of x^3+x^2+1 is to be used. Message			
	transmitted as 110010. Explain how CRC check is implemented?			
6	Discuss about Switched and Bridged Ethernet.	(3)		
7	Explain about the various layers of Bluetooth.	(3)		
8	What you mean by VPN? Explain.	(3)		
	PART B			
	Answer six questions, one full question from each module and carries 6 marks.			
	Module I			
9	Explain about the layered architecture of OSI Reference model with the help of a	(6)		
	neat diagram. What are the principal responsibilities of each of this layer?			
OR				
10	What do you mean by QoS? Explain with the flow control mechanisms.	(6)		
Module II				
11	Discuss about the MTA with the help of appropriate protocol. Give an example for MAA.	(6)		
OR				
12	What is Socket Programming? Explain the echo server and echo client program	(6)		
12	using UDP.	(0)		
Module III				
13	How reliability of data transfer is done in Transport Layer? Explain.	(6)		
	OR	. ,		
14	Explain the principles of Congestion control with its efficiency and fairness.	(6)		
	Module IV	(6)		
15	Explain the connection Management in Virtual Circuits with neat diagrams. What are the different classifications of VCs?	(6)		
OR				
16	What is Routing? Explain Link state routing with OSPF protocol.	(6)		
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	Module V	
17	Discuss about Collision based Multiple access protocol. Compare it with token	(6)
	based Multiple access protocols.	
	OR	
18	Explain IEEE802.3 Ethernet with its access protocol.	(6)
	Module VI	
19	Explain Wi-Fi Architecture.	(6)
	OR	
20	Write a short note on:	(6)
	i) Traffic analysis tools.	
	ii) Trouble Shooting.	
