U.S.N.					

## **BMS College of Engineering, Bangalore-560019**

(Autonomous Institute, Affiliated to VTU, Belgaum)
MAY/JUNE 2014 Semester End Main Examinations

MA 1/JUNE 2014 Semester End Wall Examinations							
Course: Computer Networks			Duration	: 3 hours			
Course Code: 10CI6GCCON Max Marks: 100			ks: 100				
			Date: 10.06.	2014			
Instructions: Answer five full questions choosing one from each unit.							
		UNIT 1					
1	a. b. c.	Explain Virtual circuit packet switching with delays Explain the structure of a packet switch Differentiate between i) Source routing versus Hop-by-hop routing ii) Link state routing versus distance-vector routing			08 04 08		
		UNIT 2					
2	a. b.	With an example illustrate count to infinity problet this problem.  With neat figures, demonstrate the delay incurred that is broken into separate three packets in  i) Datagram Packet switching ii) Virtus iii) Cut through packet switching.	while transm	itting a message	10		
		OR					
3	a. b. c.	Differentiate between leaky bucket Traffic Shap Shaper.  Describe the format of IPV6 basic header and also t A host in an organization has an IP address 150 255.255.240. Build the address of subnet for the sar that a host can have on this subnet?	he extension h	eaders I a subnet mask	06 10 04		
	UNIT 3						
4	a. b. c.	Briefly explain structure of management information Explain Diffie-Hellman algorithm for key generation Write ESP format.			05 05 05		

d. Write RSA algorithm and show encryption and decryption process.

05

## OR

5	a.	Explain classification of Resource-Allocation Schemes.	06
	b.	With block diagram explain differentiated service.	04
	c.	What are the organizational benefits provided by VPNs.	04
	d.	Explain MPLS operation.	06
		UNIT 4	
6	a.	Derive the Shannon's coding theorem for rate of data compression.	10
	b.	Illustrate the H.323 call setup and termination	10
		UNIT 5	
7	a.	With an example explain the Dynamic Source Routing protocol	08
	b.	Explain wireless Sensor node structure	07
	c.	Write short notes on Zigbee Technology.	05

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