U.S.N.					

BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

JUNE 2015 Semester End Make Up Examinations

Course: Computer Network **Duration: 3 Hours** Course Code: 10CI6GCCON Max Marks:100 Date: 22.06.2015

Instructions: Answer any five full questions choosing one from each unit.

		UNIT-I	
1.	a)	Explain Virtual circuit packet switching with delays	08
	b)	Explain the structure of a packet switch	04
	c)	Differentiate between	08
		i) Source routing versus Hop-by-hop routing	
		ii) Link state routing versus distance-vector routing	
		UNIT-II	
2.	a)	What is FIFO Queuing? Explain HOL- Priority queuing with a diagram.	08
	b)	What is RED? Explain.	04
	c)	Explain any two types of OSPF Packets with its operation.	08
		OR	
3.	a)	Differentiate between leaky bucket Traffic Shaper and Token bucket Traffic Shaper.	06
	b)	Describe the format of IPV6 basic header and also the extension headers	10
	c)	A host in an organization has an IP address 150.32.64.24 and a subnet mask 255.255.240. Build the address of subnet for the same and the range of IP address that a host can have on this subnet?	04
		UNIT-III	
4.	a)	What is MPLS? Explain how the packets are forwarded using MPLS	06
	b)	Discuss the differentiated services of QoS approach	08
	c)	Apply RSA algorithm for the following:	06
		i) Encrypt the plain text $P=25$ for $p=7$, $q=11$, $e=17$.	
		ii) Find the value of d and decrypt the ciphertext.	
		OR	
5.	a)	Explain in detail the leaky bucket traffic shaping algorithm	08
	b)	Explain diffie-hellman key exchange algorithm with an example	06
	c)	Categorize the functionalities performed by Network Management System	06

UNIT-IV

6.	a)	Explain the need for data compression? Discuss the different types of	10
	b)	Compression methods without loss.	10
	b)	Explain RTP and RTCP protocol in detail.	10
		UNIT-V	
7.	a)	Explain DSDV packet process algorithm	06
	b)	Explain different types of attacks in Ad-hoc networks	04
	c)	Explain the different units in wireless sensor node.	06
	d)	Write short notes on Zigbee Technology.	04
