BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS:	BE	SEMESTER : V	
BRANCH	: CSE	SESSION : MO/19	
TIME:	SUBJECT: CS6107 COMPUTER NETWORK 3 HOURS	FULL MARKS: 60	
INSTRUC 1. The c 2. Cand 3. The r 4. Befor 5. Table	TIONS: Juestion paper contains 7 questions each of 12 marks and total 84 marks. dates may attempt any 5 questions maximum of 60 marks. nissing data, if any, may be assumed suitably. e attempting the question paper, be sure that you have got the correct quest s/Data hand book/Graph paper etc. to be supplied to the candidates in the ex	tion paper. camination hall.	
Q.1(a)	What is the relationship between services and protocol?	kets.	[2]
Q.1(b)	How we can calculate total latency during communication for M hops and N pac		[4]
Q.1(c)	Briefly describe the functions of each layer in the OSI model.		[6]
Q.2(a) Q.2(b)	Define the character stuffing. How sliding window protocol can provide the service to preserve the order transmitted.	in which frames are	[2] [4]
Q.2(c)	The following bitstream is encoded using VRC, LRC and even parity. Locate and opresent. 11000011 11110011 10110010 00001010 00101010 00101011 10100011 01001011 11100001	correct the error if it is	[6]
Q.3(a)	What is the transceiver?		[2]
Q.3(b)	Define the frame format for 802.11		[4]
Q.3(c)	Explain the Bluetooth technologies.		[6]
Q.4(a)	What is an Internetwork?		[2]
Q.4(b)	What is the difference between the forwarding table and routing table?		[4]
Q.4(c)	Explain the packet header format for IPv4.		[6]
Q.5(a)	Define the virtual circuit network.		[2]
Q.5(b)	What is IP multicast?		[4]
Q.5(c)	Write a short note on MPLS.		[6]
Q.6(a)	Define the RPC protocol.		[2]
Q.6(b)	What is Three-way-Handshake?		[4]
Q.6(c)	Describe the Transmission Control Protocol.		[6]
Q.7(a)	Define the congestion in the network.		[2]
Q.7(b)	What is the difference between congestion control and flow control?		[4]
Q.7(c)	Explain the FIFO queuing technique.		[6]

:::::29/11/2019:::::M