## T.E. (computer) (sem-V) (CBSGS) (P-2012)

Paper / Subject Code: 30303 / COMPUTER NETWORKS

Date-21/11/19

Duration: 3 Hrs.	Total Marks:80
N.B.: 1. Question No. 1 is Compulsory.	
2. Attempt any three questions from remaining five questions.	
3. Figure to the right indicates full marks.	
Q.1 a) What is framing? Explain in short different framing methods.	5
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b) Discuss design issues for various layers.	5
c) Compare TCP/IP and OSI reference models.	5
d) Explain various error-reporting messages in Interned Control Message Protocol	l. 5
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Q.2 a) What is congestion control? Explain various congestion prevention policies.	10
b) Explain working of simple mail transfer protocol (SMTP).	10
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Q.3 a) Explain in detail IPv4 header format with diagram.	10
b) Explain CSMA protocols. How are collisions handled in CSMA/CD?	10
Q.4 a) Explain working of link state routing algorithm. Explain content and requirement	nts 10
of link state packets.	
b) Explain congestion control approaches in TCP.	10
Q.5 a) Explain File Transfer Protocol (FTP).	10
b) Explain sliding window protocol using Go Back-N technique.	10
Q. 6 Write short notes on following.	20
a) Simple Network Management Protocol (SNMP)	
b) Address Resolution Protocol (ARP)	
c) Bluetooth	
d) Berkeley Sockets	

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