30-Nov-18   1T00132 - M.C.A. (Sem. II)(CBSGS) / 54803 - Computer Network.   58795

[3 hours]   [Marks: 80]

a) Question No. 1 is compulsory
b) Attempt **any four** from the remaining six questions
c) Assumptions should be made whenever required and should be clearly stated
d) Answers to sub questions should be answered together
e) Illustrate answers with diagrams wherever necessary
f) Use of Calculators is permitted

Q1	A	Explain the IEEE 802.3 standard.	10
	B	What are connecting devices? Explain the various connecting devices used at the various layers of the communication model	10
Q2	A	Explain difference between distance vector and link state routing protocol. Explain anyone link state routing algorithm in detail.	8
	B	Find the CRC for $F(x) = X^6 + 1$ using the divisor polynomial $G(x) = X^4 + X^3 + X + 1$.	7
Q3	A	Explain the IP Addressing System along its classes. What do you mean by subnet masking?	8
	B	Describe the congestion control mechanism used in TCP.	7
Q4	A	Explain the Multicasting Algm MOSPF.	8
	B	Differentiate between the following 1. Connection Oriented and Connectionless communications 2. Routers and Switches	7
Q5	A	Explain how MPLS solves the problems of traditional routing algorithms.	8
	B	What are transmission impairments? Explain the various impairments effecting wired medium.	7
Q6	A	What are the guided and unguided media? Explain the twisted pair and optical fibers as guided medium	8
	B	In which Layer PPP works ? Explain PPP in detail	7
Q7	A	Write Short Notes on **any three** of the following 1. BGP 2. FTP 3. NAT 4. QOS	15

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