Total No. of Questions: 12]

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## F.Y. M.C.A (Engineering) COMPUTER NETWORK

(2020 Pattern) (Semester-II) (310913)

Time : 21/2	5 Hours!	Max. Marks : 70
Instruction 1)	ons to the candidates: Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. Assume suitable data if necessary.	
<i>Q1)</i> a)	Explain LAN, MAN, WAN	[6]4
b)	Describe Frequency Hopping and Hierarchical topology.	[6]3
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<i>Q2)</i> a)	Explain with diagram TCP IP model.	[6]
b)	Explain bridges, switches and routers in detail with diagra	am. [6]
<i>Q3)</i> a) b)	Discuss Error Control and Flow Control in detail.  Explain stop and wait protocol v ith suitable example.  OR	[6] <sup>~</sup>
0.0	Explain sliding window protocol with suitable example.	[6]
<i>Q4)</i> a) b)	Write short note on PPP and HDLC.	[6]
(Q5) a) b)	Explain Pure and Slotted ALOHA.  Describe about CSMA/CD in detail.  OR	[6] [5]
061 a)	Write short not on Fast Ethernet and Gigabit Ethernet.	[6]
<b>Q6)</b> a) b)	Explain static and dynamic channel allocation.	[5]
<i>Q7)</i> a) b)	Differentiate between IPv4 and IPv6 addressing.  Explain Mobile IP and routing in MANAET.  OR	[6]

00 J	Explain Distance Vector and Link state routing protocol.	[6]
<b>Q8)</b> a) b)	Write short note on BGP and NA1.	[6]
<i>Q9)</i> a)	Describe Transport Layer Services.	[6]
b)	Explain RTP and SCTP	[6]
<i>Q10)</i> a) b)	OR  Discuss in detail about TCP Congestion Control  Differentiate between TCP and UDP.	[6] ~ [6] ~
<i>Q11)</i> a) b)	Explain DNS with suitable example.  Explain SNMP in detail.	[6] [5]
	OR	
<i>Q12)</i> a)	Write short note on SMTP and POP3 protocol.	[6]
h)	Explain DHCP in detail.	15/

