BE/ETRa/ Sem VII / Rev	
Communication - Network (REVISED COURSE)	
(3 Hours)	[T
no.1 is compulsory	

N.B.: 1) Question Attempt any four any four questions from remaining. 3) Assume suitable data whenever necessary

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> Q.1 a) Differentiate between TCP and UDP. b) Layers of the internet model correlate to the layers of the OSI model explain.

c) Explain the looping problem in bridge LAN. How to solve it.

d) Distinguish between packet switching & circuit switching

e) Explain the ISDN channel structure for basic & primary services.

Q.2. a) Draw the layered OSI network architecture. Explain the function of each layer

and show the path of actual and virtual connection between the layers.

b) Explain in detail Repeaters, Bridges, Routers and Switches.

Q.3.a) Explain XDSL technologies and its application. Explain in detail ADSL.

b) What is the exterior and interior routing? Explain in brief distance vector routing and page vector routing.

and interface

i) Token Ring

ii) FDDI

Q.4.a) Draw door diagram of functional architecture of ISDN and explain ISDN channels

with respect to MAC protocol explain

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Q.5. a) Write short note on		W.
i) IEEE 802.2	(,'	J
ii) IEEE802.3	λ .	
b) Explain leaky buck	tet and Token bucket algorithm in details.	10
Q.6.a) what is protocol perf	formance? Derive the relation for protocol performance for	10
i) Stop and wait flow	w control mechanism	
ii) Sliding window p	protocol mechanism.	
b) Explain different types of	of ARQ techniques and compare their merits and demerits	10
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Q.7. Write short note on (A)	ny Three)	20
i) Utilities	ii) SONET ISDN	
iff) Berkeley API	iv) Error control Techniques.	