1T01136 - T.E.(Electronics Engineering)(SEM-VI)(Choice Base Credit Grading System) (R-20-21) (C Scheme) / 89363 - Computer Communication Networks

QP CODE : 10013203   DATE: 13/12/2022

Duration: 3hrs   **[Max Marks:80]**

N.B. : (1) Question No 1 is Compulsory.
       (2) Attempt any three questions out of the remaining five.
       (3) All questions carry equal marks.
       (4) Assume suitable data, if required and state it clearly.

Q1.	Attempt any FOUR	[20]
a	Differentiate between LAN, MAN & WAN	[05]
b	Explain HUB & Switch with the help of suitable diagram	[05]
c	Differentiate between Pure Aloha & Slotted Aloha	[05]
d	Draw IP Version 4 header Format	[05]
e	Explain Open Loop Congestion Control Technique	[05]
Q2. a	Explain various network topologies with the help of suitable diagram & list the advantages & disadvantages of each network topology	[10]
b	Explain various guided & unguided transmission media with the help of suitable diagrams. Also compare the major difference between guided & unguided transmission media	[10]
Q3. a	Explain Stop-And-Wait ARQ Protocol & list the advantages & disadvantages of Stop-And-Wait ARQ Protocol	[10]
b	Compare Stop-And-Wait ARQ, Go-Back-N ARQ & Selective Repeat ARQ flow control techniques	[10]
Q4. a	Explain Non-Persistent, 1-Persistent & P-Persistent CSMA with the help of suitable diagram	[10]
b	Explain Time Slot Interchange Switch with the help of suitable diagram	[10]
Q5. a	Explain Crossbar Switch with the help of suitable diagram	[10]
b	Explain UDP header with the help of suitable diagram & list the applications of UDP	[10]
Q6. a	Explain Domain Name System (DNS) in application layer with the help of suitable diagram	[10]
b	Write a short note on ADSL	[10]

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