1. DEFINITION and Full Name

Internet Protocol Client Server AccessNetwork CircuitSwitching

Packet Switching FDM TDM ISP Delay Loss Throughput

Socket RDT TCP UDP HTTP WEB Email FTP DNS

Multiplexing Demultiplexing FSM GBN (Pipelined protocol)

(Selective Repeat) MTU MSS ATM congestion IP ICMP

RIP OSPF IS-IS BGP Forwarding RoutingAlgorithm (Subnet mask)

CIDR DHCP NAT VPN (Default router ) (Autonomous System)

(intra-AS routing protocol) (inter-AS routing protocol)

二、Short answer question

1、Briefly describe the types and characteristics of physical media.

2、Briefly describe the reason for the package loss.

3、Describe the role of traceroute and ping.

4、Describe the seven layer structure of the network.

5、How to establish communication between different processes.

6、How to establish communication between different hosts.

7、Describe the role of SMTP and POP3 in email systems.

8、Describe the role of DNS.

9、What is the TCP Fast Recovery?

10、Describe TCP congestion control.

11、Describe TCP three way handshake.

12、Describe the differences between different versions of RDT.

13、Describe the role and classification of routing algorithms.

14、Comparison of LS and DV Routing Algorithms.

15、Why introduce hierarchical routing？