Chapter 1 Computer Networks and the Internet

- I. The () is a worldwide computer network, that is, a network that interconnects millions of computing devices throughout the world.

 ppt3

 A public Internet
 - B Intranet
 - C switch net
 - D television net
- 2. Which kind of media is not a guided media? ()
 - A twisted-pair copper wire
 - B a coaxial cable
 - C fiber optics
 - D digital satellite channel
- 3. Which kind of media is a guided media? ()
 - A geostationary satellite
 - B low-altitude satellite
 - C fiber optics
 - D wireless LAN
- 4. The units of data exchanged by a link-layer protocol are called ().
 - A Frames
 - B Segments
 - C Datagrams
 - D bit streams
- 5. Which of the following option belongs to the circuit-switched networks?
 - A FDM
 - B TDM
 - C VC networks
 - D both A and B
- ()makes sure that neither side of a connection overwhelms the other side by sending too many packets too fast.
 - A Reliable data transfer
 - B Flow control
 - C Congestion control
 - D Handshaking procedure
- 7. () means that the switch must receive the entire packet before it can begin to transmit the first bit of the packet onto the outbound link.
 - A Store-and-forward transmission
 - B FDM
 - C End-to-end connection
 - D TDM
- 8. Datagram networks and virtual-circuit networks differ in that ().
 - A datagram networks are circuit-switched networks, and virtual-circuit networks are packet-switched networks.
 - B datagram networks are packet-switched networks, and virtual-circuit networks are circuit-switched networks.
 - C datagram networks use destination addresses and virtual-circuit

networks use VC. numbers to forward packets toward their destination.

- D datagram networks use VC. numbers and virtual-circuit networks use destination addresses to forward packets toward their destination.
- 9. In the following options, which one is not a guided media? ()
 - A twisted-pair wire
 - B fiber optics
 - C coaxial cable
 - D satellite
- 10. Processing delay does not include the time to ().
 - A examine the packet's header
 - B wait to transmit the packet onto the link
 - C determine where to direct the packet
 - D check bit-error in the packet
- 11. In the following four descriptions, which one is correct? ()
 - A The traffic intensity must be greater than 1.
 - B The fraction of lost packets increases as the traffic intensity decreases.
 - C If the traffic intensity is close to zero, the average queuing delay will be close to zero.
 - D If the traffic intensity is close to one, the average queuing delay will be close to one.
- 12. The Internet's network layer is responsible for moving network-layer packets known as () from one host to another.
 - A frame
 - B datagram
 - C segment
 - D message
- 13. The protocols of various layers are called ().
 - A the protocol stack
 - B TCP/IP
 - C ISP
 - D network protocol
- 14. There are two classes of packet-switched networks: () networks and virtual-circuit networks.
 - A datagram
 - B circuit-switched
 - C television
 - D telephone
- 15. Access networks can be loosely classified into three categories:

residential access, company access and () access.

- A cabled
- B wireless
- campus
- city area

Question 16~17

	Suppose, a is the average rate at which packets arrive at the queue, R is	D distributed applications
the	transmission rate, and all packets consist of L bits, then the traffic	24. The Internet provides two services to its distributed applications: a
	nsity is (16), and it should no greater than (17).	connectionless unreliable service and () service.
		A flow control
16.		B connection-oriented reliable
	$\frac{B}{A} = \frac{La}{R}$	C congestion control
	C Ra/L	D TCP
	D LR / a	25. It defines the format and the order of messages exchanged between two
17.	A 2	or more communicating entities, as well as the actions taken on the
	B 1	transmission and/or receipt of a message or other event. The sentence
	C 0	describes ().
	D -1	A Internet
1 2	In the Internet, the equivalent concept to end systems is ().	B protocol
10.	A hosts	C intranet
	B servers	D network
	C clients	26. In the following options, which does not define in protocol? ()
	D routers	A the format of messages exchanged between two or more
19.	In the Internet, end systems are connected together by ().	communicating entities
	A copper wire	B the order of messages exchanged between two or more
	B coaxial cable	communicating entities
	C communication links	C the actions taken on the transmission of a message or other event
	D fiber optics	D the transmission signals are digital signals or analog signals 模拟
20.		信号
	A modems	27. In the following options, which is defined in protocol? ()
	B protocols	A the actions taken on the transmission and/or receipt of a message or other event
	C ISP	B the objects exchanged between communicating entities
	D sockets	C the content in the exchanged messages
21.	End systems, packet switches, and other pieces of the Internet, run ()	D the location of the hosts
	that control the sending and receiving of information within the	28. In the following options, which does not belong to the network edge?
	Internet.	()
	A programs	A end systems
	B processes	B routers
	C applications	C clients
	D protocols	D servers
22.	There are many private networks, such as many corporate and	29. In the following options, which belongs to the network core? ()
	government networks, whose hosts cannot exchange messages with	A end systems
	hosts outside of the private network. These private networks are often	B routers
	referred to as ().	C clients
	A internets	D servers
	B LAN	30. In the following options, which is not the bundled with the Internet's
	C intranets	connection-oriented service? ()
	D WAN	A reliable data transfer
23.	The internet allows () running on its end systems to exchange data	B guarantee of the transmission time
	with each other.	C flow control
	A clients applications	D congestion-control
	B server applications	31. An application can rely on the connection to deliver all of its data
	C P2P applications	without error and in the proper order. The sentence describes ().

D distributed applications

A flow control			C	data switching	
B congestion-control			D	message switching	
C reliable data transfer		40.	In () networks, the resources needed along a path to provide for	
D connection-oriented service	•		comr	nunication between the end system are reserved for the duration 持	
32. It makes sure that neither side of a	It makes sure that neither side of a connection overwhelms 淹没 压倒		续 of the communication session.		
the other side by sending too many	the other side by sending too many packets too fast. The sentence		A	packet-switched	
describes ().			В	data-switched	
A flow control			C	circuit-switched	
B congestion-control			D	message-switched	
C connection-oriented service	;	41 <mark></mark>	In () networks, the resources are not reserved; a session's messages	
D reliable data transfer			use tl	he resources on demand, and as a consequence, may have to wait	
33. It helps prevent the Internet from	It helps prevent the Internet from entering a state of gridlock. When a		for a	ccess to communication link.	
packet switch becomes congested.	, its buffers can overflow and packet		A	packet-switched	
loss can occur. The sentence descr	ribes ().		В	data-switched	
A flow control			C	circuit-switched	
B congestion-control			D	message-switched	
C connection-oriented service	:	42.	In a c	circuit-switched network, if each link has <i>n</i> circuits, for each link	
D reliable data transfer			used	by the end-to-end connection, the connection gets () of the	
. The Internet's connection-oriented service has a name, it is ().				s bandwidth for the duration of the connection.	
A TCP			A	a fraction 1/n	
B UDP			В	all	
C TCP/IP			C	1/2	
D IP			D	n times	
35. In the following options, which service does not be provided to an), the transmission rate of a circuit is equal to the frame rate	
application by TCP?()				iplied by the number of bits in a slot.	
A reliable transport			A	CDMA	
B flow control			В	packet-switched network	
C video conferencing			C	TDM	
D congestion control			D	FDM	
36. The Internet's connectionless serv	ice is called ().	44.	()1	means that the switch must receive the entire packet before it can	
A TCP		1	begir	n to transmit the first bit of the packet onto the outbound link.	
B UDP			A	Queuing delay	
C TCP/IP			В	Store-and-forward transmission	
D IP			С	Packet loss	
37. In the following options, which do	oes not use TCP?()		D	Propagation	
A SMTP		45.	The r	network that forwards packets according to host destination	
B internet telephone				esses is called () network.	
C FTP			A	circuit-switched	
D HTTP			В	packet-switched	
38. In the following options, which do	oes not use UDP?()		С	virtual-circuit	

A

В

C

D

В

Internet phone

telnet

and packet switching.

circuit switching

video conferencing

streaming multimedia

electrical current switching

39. There are two fundamental approaches to building a network core, ()

3

D

A

В

C

D

datagram

is called () network.

circuit-switched

packet-switched

virtual-circuit

datagram

46. The network that forwards packets according to virtual-circuit numbers

