## Computer Network Test Paper

1.	Who invented IP and some related Internet protocols?  B  A) Vinton Cerf and Bob Metcalfe  b) Vinton Cerf and Robert Kahn  c) Bob Metcalfe and Ivan Sutherland  Bob Metcalfe and David Clark
2.	n the OSI reference model,
3.	The upper layers of the OSI model are, in correct order  a) Session, application, presentation  b) Session, presentation, application  c) Session, application, presentation, physical  d) Application, presentation, session
4.	The lower layers of the OSI model are, in correct order  a) physical, system, network, logical  b) physical, logical, network, system  c) physical, transport, network, data link  d) physical, data link, network, transport
5.	The Internet Protocol (IP) generally corresponds to which OSI layer?  A  a) Network (layer three)  b) Transport (layer four)  c) Data link (layer two)  d) Session (layer five)
6.	MTU stands for C a) Minimum Transfer Unit b) Minimum Transmission Unit c) Maximum Transmission Unit d) Maximum Transfer Unit
7.	What layer of the OSI model is designed to perform error detection functions?  B a) Physical b) Data link c) Network d) transport
8.	Which of these network devices primarily functions at the OSI Network layer (layer 3)?  a) Switch  b) Gateway

	c)	Router
	d)	All of the above
9.	Wha	t is the size of today's standard (IPv4) IP address?  A
	a)	4 bytes (32 bits)
	b)	12 bytes (96 bits)
	c)	15 bytes (120 bits)
	d)	16 bytes (128 bits)
10.	Wha	t is the size of the next-generation (IPv6) IP address?
	a)	4 bytes (32 bits)
	b)	12 bytes (96 bits)
	c)	15 bytes (120 bits)
	d)	16 bytes (128 bits)
11.	Whic	ch of the following higher-level protocols runs over IP? D
	a)	FTP
	b)	НТТР
	c)	SMTP
	d)	All of the above
12.	Whic	th of the following IPv4 addresses is the <i>loopback address</i> ?  C
	a)	0.0.0.0
	b)	10.0.0.1
	c)	127.0.0.1
	d)	255.255.255
13.	Whic	ch of the following IPv6 addresses is the loopback address?  B
	a)	0::0
	b)	0::1
	c)	127::0
	d)	127::1
14.	The	length of an IP datagram header can vary depending on the options used. What is the
	smal	lest possible IP header size? B
	a)	16 bytes
	b)	20 bytes
	c)	24 bytes
	d)	60 bytes
15.	The s	source IP address for an IPv4 datagram is stored where in the header? C
	a)	2nd longword (bytes 5-8)
	b)	3rd longword (bytes 9-12)
	c)	4rd longword (bytes 13-16)

	d)	5rd longword (bytes 17-20)		
16.	The (a) b) c) d)	e destination IP address for an IPv4 datagram is stored where in the h 2nd longword (bytes 5-8) 3rd longword (bytes 9-12) 4rd longword (bytes 13-16) 5rd longword (bytes 17-20)	neader?	D
17.	The	header length field in an IPv4 datagram contains the size of an I	P header	measured in
		mber of C		
	a)	Bits		
	b)	Bytes		
	c)	Longwords (4 bytes)		
	d)	None of the above		
18.	Can ( a) b) c) d)	No (and IP does not run over Ethernet) No Yes (but IP does not run over Ethernet) Yes		
19.	Wha a) b) c) d)	at function does Address Resolution Protocol (ARP) perform? A Converts IP addresses to Ethernet addresses Automatically assigns IP addresses to computers Prevents two computers from using the same IP address None of the above		
20.	Wha	at mechanism does ARP use to resolve IP addresses?		
	a)	Mathematical formula		
	b)	Lookup table		
	c)	Central web site		
	d)	Random number generator		
21.	Which utility program is designed to report whether a networked computer is responding at			
	-	ven IP address, and how long these responses take?  B		
	a)	traceroute		
	b)	ping		
	c) d)	ttcp netstate		
	ω,			
22.		ich of these shell commands supplies the IP address of a compuerating system?  B  ipconfig  ifconfig	ter runnii	ng the Linux

	c)	linuxconf	
	d)	none of the above	
23	Whi	ch of the following technologies manage the conversion between IP addresses	s and host
25.	nam		s and nost
	a)	BGP	
	b)	DNS	
	c)	ARP	
	d)	All of the above	
24.	CIDF	R stands for D	
	a)	Class-based Internet Domain Routing	
	b)	Careful Inter-Domain Routing	
	c)	Constant Internet Domain Routing	
	d)	Classless Inter-Domain Routing	
25.	In CI	IDR notation, which of the following networks contains host 192.168.14.2?	В
	a)	192.168.10.0/22	
	b)	192.168.11.0/21	
	c)	192.168.12.0/23	
	d)	192.168.13.0/24	
26.	Whi	ch central authority is responsible for allocating IP addresses on the Internet?	В
	a)	IETF	
	b)	IANA	
	c)	IEEE	
	d)	None of the above	
27.	The	IP delivery service is C	
	a)	Reliable, connection-oriented	
	b)	Non-routable	
	c)	Unreliable, connectionless	
	d)	None of the above	
28.	ТСР	stands for A	
	a)	Transmission Control Protocol	
	b)	Trivial Connection Protocol	
	c)	Traffic Control Protocol	
	d)	Telephony Connection Protocol	
29.	UDP	stands for C	
	a)	Universal Data Protocol	
	b)	Unreliable Datagram Protocol	
	c)	User Datagram Protocol	

	d)	Ultimate Data Protocol
30.	Both	TCP and UDP belong to which layer of the OSI mode?  B
	a)	Session
	b)	Transport
	c)	Network
	d)	Data Link
31.	UDP	offers which of the following benefits relative to TCP?  A
	a)	UDP consumes fewer computer resources by not maintaining connection state
	b)	UDP supports a self-regulating "throttle" feature that prevents network saturation
	c)	UDP guarantees that Individual packets of a transmission will arrive "in order"
	d)	None of the above
32.	Wha	t is the maximum recommended length of twisted-pair Ethernet cables used in home or
		ness networks? B
	a)	10 meters
	b)	100 meters
	c)	1000 meters
	d)	Other
33.	On E	thernet LANs, the Ethernet address is also known as the B
	a)	IP address
	b)	MAC address
	c)	Virtual address
	d)	Other
34.	How	long is a MAC address?
	a)	4 bytes
	b)	6 bytes
	c)	8 bytes
	d)	10 bytes
35.	Wha	t is the basic unit of Ethernet traffic?  B
	a)	File
	b)	Frame
	c)	Packet
	d)	Stream
36.	CSM	A/CD stands for A
	a)	Carrier Sense Multiple Access with Collision Detection
	b)	Collision Sense Multiple Access with Carrier Detection
	c)	Carrier Single-Multiple Access with Collision Detection
	d)	Collision Single-Multiple Access with Carrier Detection

37.	Which of the following is a routing protocol?			
	a)	ARP		
	b)	DNS		
	c)	BGP		
	d)	SMTP		
38.	Whi	ch of the following algorithm has the so called count-to-infinity problem?	С	
	a)	Flooding algorithm		
	b)	Link-state algorithm		
	c)	Distance vector algorithm		
	d)	None of the above		
39.	Which of the following algorithm does BGP use?			
	a)	Flooding algorithm		
	b)	Link-state algorithm		
	c)	Distance vector algorithm		
	d)	None of the above		
40.	Whi	ch of the following protocol does ICMP run over?		
	a)	TCP		
	b)	UDP		
	c)	IP		
	d)	Ethernet		
41.	Whi	ch of the following describes the TCP connection establishing mechanism?	С	
	a)	One-way-handshake		
	b)	Two-way-handshake		
	c)	Three-way-handshake		

d) Four-way-handshake