Academy Of Technology

Subject: Computer Networking Question Bank- Part II

1.	Switches function a) physical	_		odel?) network	d)both a and
2.	 a) physical b) data link c) network d)both a and 2. The transport layer provides delivery. a) bit-to-signal transmission b) bit synchronization c) process-to-process d) hop-to-hop 				
3.	 The dedicated physical layer devices are – a) Hub & Switch b) Hub & multiplexer c) ATM switch & MUX d) Repeater & Router 				
4.	Repeaters functi	on in which lay	er(s)?		
a)	physical	b) data link	c) network	d) b	oth a and b
5.	Bridges/Switche a) physical	es function in wl b) data lii	• ` '	work	d) both a and b
6.	Routers function a) physical and	•		hysical, data	link and network
	c) data link and	network	d) network	and transpo	rt
7.	Gateways in OS	I model can fun	ction all the w	ay up to –	
	a) transport laye			c) presentation	n layer d)
appli	cation layer				
8.	8. The network layer is concerned with of data.a) bitsb) framesc) packets				
0	d) bytes Which one of the following is not a function of network layer?				
9.	Which one of the following is not a function of network layer? a) routing				
	b) inter-network	ing			
	c) congestion co	_			
	d) error contro	l			

10	A 4 byte IP address consists of
10.	a) only network address
	b) only host address
	c) network address & host address
	d) network address & MAC address
11.	In virtual circuit network each packet contains
	a) full source and destination address
	b) a short VC number
	c) only source address
	d) only destination address
12.	Which of the following routing algorithms can be used for network layer
	design?
	a) shortest path algorithm
	b) distance vector routing
	c) link state routing
	d) all of the mentioned
13.	A subset of a network that includes all the routers but contains no loops is
	called
	a) spanning tree
	b) spider structure
	c) spider tree
	d) special tree
14.	ICMP is primarily used for
	a) error and diagnostic functions
	b) addressing
	c) forwarding
	d) routin
15.	The term HTTP stands for?
	a) Hyper terminal tracing program
	b) Hypertext tracing protocol
	c) Hypertext transfer protocol
	d) Hypertext transfer program
16.	The location of a resource on the internet is given by its?
	a) Protocol
	b) URL
	c) E-mail address
	d) ICQ
17.	Which software prevents the external access to a system?
	a) Firewall
	b) Gateway

	c)	Router
	d)	Virus checker
18.	The te	erm FTP stands for?
	a)	File transfer program
	b)	File transmission protocol
	c)	File transfer protocol
	d)	File transfer protection
19.	The n	naximum length (in bytes) of an IPv4 datagram is?
	a)	32
	b)	1024
	c)	65535
	d)	512
20.	The I	P network 192.168.50.0 is to be divided into 10 equal sized subnets.
	Which	h of the following subnet masks can be used for the above requirement?
	a)	255.243.240
	b)	255.255.0.0
	c)	255.255.255.0
	d)	255.0.0.0
0.1	When	the mail compared mail to other mail compare it becomes
21.		the mail server sends mail to other mail servers it becomes?
		SMTP client
	,	SMTP server
	,	Peer
	d)	Master
22.	The le	ength of an IPv6 address is?
		32 bits
	,	64 bits
	,	128 bits
	,	256 bits
23	,	ch of the following address belongs class A?
		121.12.12.248
	,	130.12.12.248
	,	128.12.12.248
	,	129.12.12.248
24.	,	ch of the following is correct IPv4 address?
∠4.		124.201.3.1.52
	a)	12T,201,3,1,32

- b) 01.200.128.123
- c) 300.142.210.64
- d) 10110011.32.16.8
- e) **128.64.0.0**
- 25. Which of the following IP addresses can be used as (a) loop-back addresses?
 - a) 0.0.0.0
 - b) **127.0.0.1**
 - c) 255.255.255.255
 - d) 0.255.255.255
- 26. In the IPv4 addressing format, the number of networks allowed under Class C addresses is
 - a) 2^{14}
 - b) 2^{7}
 - c) 2^{21}
 - d) 2^{24}
- 27. In the IPv4 addressing format, the number of networks allowed under Class C addresses is
 - a) 2^{14}
 - b) 2⁷
 - c) 2²¹
 - d) 2^{24}
- 28. An Internet Service Provider (ISP) has the following chunk of CIDR-based IP addresses available with it: 245.248.128.0/20. The ISP wants to give half of this chunk of addresses to Organization A, and a quarter to Organization B, while retaining the remaining with itself. Which of the following is a valid allocation of addresses to A and B?
 - a) 245.248.136.0/21 and 245.248.128.0/22
 - b) 245.248.128.0/21 and 245.248.128.0/22
 - c) 245.248.132.0/22 and 245.248.132.0/21
 - d) 245.248.136.0/24 and 245.248.132.0/21
- 29. If a class B network on the Internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet?
 - a) 1022
 - b) 1023
 - c) 2046
 - d) 2047

- 30. The subnet mask for a particular network is 255.255.31.0. Which of the following pairs of IP addresses could belong to this network?
 - a) 172.57.88.62 and 172.56.87.233
 - b) 10.35.28.2 and 10.35.29.4
 - c) 191.203.31.87 and 191.234.31.88
 - d) 128.8.129.43 and 128.8.161.55
- 31. Which of the following can be used as both Source and Destination IP?
 - a) 198.168.1.255
 - b) **10.0.0.1**
 - c) 127.0.0.1
 - d) 255.255.255.255
- 32. Which of the following is public IP address?
 - a) 10.15.14.12
 - b) 192.168.52.62
 - c) 172.32.1.1
 - d) None of the Above
- 33. In class B if subnet mask is 255.192.0.0 Total Number of networks than can be joined
 - a) 32
 - b) **64**
 - c) 16
 - d) None of the above
- 34. If block contains 32 IP address which of the following is first address of the block?
 - a) 10.0.0.16
 - b) 10.0.0.32
 - c) 10.0.0.160
 - d) None of the above
- 35. The default subnet mask for a class B network can be
 - a) 255.255.255.0
 - b) 255.0.0.0
 - c) 255.255.192.0
 - d) **255.255.0.0**
- 36. The DNS maps the IP address to
 - a) A binary address as strings

- b) An alphanumeric address
- c) A hierarchy of domain names
- d) A hexadecimal address
- 37. Which of the following is not applicable for IP?
 - a) Error reporting
 - b) Handle addressing conventions
 - c) Datagram format
 - d) Packet handling conventions
- 38. Which of the following field in IPv4 datagram is not related to fragmentation?
 - a) Flags
 - b) Offset
 - c) TOS
 - d) Identifier
- 39. is responsible for converting the higher level protocol addresses to physical Network Addresses.
 - a) Address Resolution Protocol (ARP)
 - b) Reverse Address Resolution Protocol (RARP)
 - c) Bootstrap Protocol (BOOTP)
 - d) Internet Control Message Protocol (ICMP)
- 40. Which of the following IP address or addresses is private IP address?
 - a) 10.0.0.1
 - b) 172.16.0.10
 - c) 15.1.5.6
 - d) None
- 41. The DNS maps the IP address to
 - a) A binary address as strings
 - b) An alphanumeric address
 - c) A hierarchy of domain names
 - d) A hexadecimal address
- 42. Which of the following is public IP address?
 - a) 10.15.14.12
 - b) 192.168.52.62
 - c) **172.32.1.1**
 - d) None of the Above
- 43. protocol is a popular example of a link-state routing protocol.
 - a) SPF
 - b) BGP
 - c) RIP
 - d) OSPF

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4 was originally developed to provide a loop-free method of exchanging
routing information between autonomous systems.
a) OSPF
b) EIGRP
c) BGP
d) RIP
5. In OSPF, a link is a network is connected to only one router.
a) point-to-point
b) transient
c) stub
d) multipoint
6. In OSPF, when the link between two routers is broken, the administration may
create a link between them using a longer path that probably goes
through several routers.
a) point-to-point
b) transient
c) stub
d) multipoint
7. The protocol allows the administrator to assign a cost, called the metric,
to each route.
a) OSPF
b) RIP
c) BGP
d) BBGP
8. The Open Shortest Path First(OSPF) protocol is an intra domain routing
protocol based on routing.
a) distance vector
b) link state
c) path vector
d) non distance vector
9. An/Arouting scheme is designed to enable switches to react to changing
traffic patterns on the network.
a) static routing
b) fixed alternative routing
c) standard routing
d) dynamic routing
0. The Routing Information Protocol(RIP) is an intra domain routing based on
routing.
a) distance vector
b) link state

	c)	path vector
	d)	distance code
51.	In	. routing the least cost route between any two nodes is the minimum
	distanc	ce.
		path vector
	,	distance vector
	,	link state
	*	switching
52.		ntralized routing the decision is made by some designated node called
		designated center
	*	control center
	,	network center
	,	network control center
53.	_	rposes of routing, the Internet is divided into
		wide area networks
	,	autonomous networks
	,	local area networks
	d)	autonomous system
54.	In	a route is selected for each destination pair of nodes in the network.
		Flooding
		variable routing
		fixed routing
		random routing
55.		ate a neighborhood relationship, a router running BGP sends an
	messa	
		Open
	b)	Update
		keep alive
	d)	close
56.	The te	chnique which requires no network information required is
	a)	Flooding
	b)	variable routing
	c)	fixed routing
	d)	random routing
57.	An are	ea is
	a)	part of an AS
	b)	composed of at least two AS
	c)	another term for an AS

- d) composed more than two AS
- 58. Which of the following produces high traffic network?
 - a) Variable routing
 - b) Flooding
 - c) Fixed routing
 - d) Random routing
- 59. In routing, we assume that there is one node (or more) in each autonomous system that acts on behave of the entire autonomous system.
 - a) distant vector
 - b) path vector
 - c) link state
 - d) multipoint
- 60. When a direct delivery is made, both the deliverer and receiver have the same

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- a) routing table
- b) host id
- c) IP address
- d) Net id
- 61. In OSPF, a link is a network with several routers attached to it.
 - a) point-to-point
 - b) transient
 - c) stub
 - d) multipoint
- 62. In routing, the mask and the destination address are both 0.0.0.0 in routing table.
 - a) next-hop
 - b) host-specific
 - c) network-specific
 - d) default
- 63. In the router forwards the receive packet through only one of its interfaces.
 - a) Unicasting
 - b) Multicasting
 - c) Broadcasting
 - d) point to point
- 64. Which of the following is false with respect to TCP?
 - a) Connection-oriented
 - b) Process-to-process

	c) Transport layer protocol
	d) Unreliable
65.	TCP groups a number of bytes together into a packet called
	a) Packet
	b) Buffer
	c) Segment
	d) Stack
66.	Communication offered by TCP is
	a) Full-duplex
	b) Half-duplex
	c) Semi-duplex
	d) Byte by byte
67.	The receiver of the data controls the amount of data that are to be sent by the
	sender is referred to as
	a) Flow control
	b) Error control
	c) Congestion control
	d) Error detection
68.	Size of TCP segment header ranges between
	a) 16 and 32 bytes
	b) 16 and 32 bits
	c) 20 and 60 bytes
60	d) 20 and 60 bits
69.	Connection establishment in TCP is done by which mechanism?
	a) Flow control b) Three Wey Handsheking
	b) Three-Way Handshaking c) Forwarding
	d) Synchronization
70	Which of the following is false with respect to UDP?
70.	a) Connection-oriented
	b) Unreliable
	c) Transport layer protocol
	d) Low overhead
71	What is the main advantage of UDP?
, 1.	a) More overload
	b) Reliable
	c) Low overhead
72	<i>'</i>
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72.	d) Fast What is the header size of a UDP packet? a) 8 bytes

b) 8 bits
c) 16 bytes
d) 124 bytes
73. The field is used to detect errors over the entire user datagram.
a) udp header
b) checksum
c) source port
d) destination port
74. Number of logical ports ranges from to
a) 0, 255
b) 1, 65535
c) 1, 65536
d) 0, 65536
75. Which of the following is the port number for FTP data?
a) 20
b) 21
c) 22
d) 23
76. Which of the following is the port number for HTTP?
a) 79
b) 80
c) 81
d) 82