

1)	There are	Inte	ernet servio	ce providers.	
					d) all of the above
2)				rangement of a netv c) Data flow	vork. d) None of the above
3)	A is a data world	communicat	ion system	spanning states, co	ountries, or the whole
	a) MAN	b) WAN	c) L	AN	d) none of the above
				ed link between two	
5)	Which topology re a) Bus b) Sta				
				lata communication d d) none of	
7)					ted by a dedicated link. d) none of the above
8)				data communication description (1971)	ons system is the
9)	defines taken based on th		·	· · · · · · · · · · · · · · · · · · ·	and what action is to be
	a) Syntax	b) Semantic	S	c) Timing	d) None of the above
10)	Frequency of failu of a netw		ork recover	y time after a failure	e are measures of the
			curity	c) Reliability	d) Feasibility
11)				transmission c) full-duplex	
12)	Data flow between a) simplex				d) all of the above



13	) are speter technologies.	ecial-interest group	s that o	quickly test, e	evaluat	ce, and standardize new
	a) Standards organi c) Forums	izations		b) Regulato d) All of the		
14	) Which agency de signaling specifica		for phy	ysical connec	tion in	terfaces and electronic
	a) ISO	b) ITU-T	c) AN	SI	d) EIA	<b>A</b>
15	) A is a da between nearby b		systen	n within a bui	ilding,	plant, or campus, or
	a) LAN	=	c) W	AN	d) no	ne of the above
16	) refers to be sent.	two characteristic	s: whe	n data shoul	d be se	ent and how fast it can
	a) Semantics	b) Timing	c) Syr	ntax	d) no	ne of the above
17	) This was the first a) CSNET		c) AR	PANET	d) AN	SNET
	,					
	) Devices may be a mesh b) rin	rranged in a	topolo c) bu		d) all	of the above
19	) is the pr a) UNIX	otocol suite for the b) NCP	c) TC		d) AC	M
20)	is a coll	ection of many sep	arate r	networks.		
,		b) An internet				d) None of the above
21		nnection, three or i				d) none of the above
22	) Which organizations f	•	er inte	rstate and in	ternati	ional commerce in the
	a) FCC	b) IEEE	c) ITU	J-T	d) ISC	OC
23	) In the original AR	PANET, w	ere dir	ectly connec	ted tog	gether.
		b) host computer				



transmission.	n between a comp	uter and a keyboard	a involves _	
	b) half-duplex	c) full-du	plex	d) automatic
· -	y requires a centra Bus <b>c) Star</b>	l controller or hub? d) Ring		
		over which a messa c) Medium		e above
		nan two devices can to-point c)		
they are presen		r format of the data c) Timing	a, meaning t d) All of	
29) An unauthorize <b>a) Security</b>	ed user is a networ b) Reliability		mance	d) All the above
	idea or concept the b) ID c)	nat is a precursor to <b>RFC</b>		standard. of the above
devices at all tir		nnel capacity is sha c) full-du	-	communicating d) half-simplex
32) This topology r a) Star	equires multipoint b) Mesh	connection c) Ring	d) Bus	
33) Data communi <b>a) LAN</b>	cation system with b) WAN	nin a building or cam c) MAN		of the mentioned
34) Expand WAN a) World area n c) Web area ne		•	<b>area netwo</b> of the ment	
35) In TDM, slots a a) Seconds	re further divided <b>b) Frames</b>	into c) Packets	d) None	of the mentioned



a) FDM	b) TDM	each signal to a different c) Either a or b ency division multiplexing	d) Both a and b
37) Types of softwa a) Application pr c) Logical progra	rograms	b) Replicate pro <b>d) both A and B</b>	=
38) Set of programs a) database pacl		ull set of documentations kages c) bus packages	
39) Specialized prog a) relative progr c) relative progr	ams	ser to utilize in specific ap <b>b) application progra</b> d)replicate programs	
40) Program which a) experimental c) specialized pr	program	ystem performance is cla <b>b) system program</b> d) organized program	assified as
41) Examples of systal a) operating systal c) compiler	tem programs inclutem of computer	udes b) trace progran b) <b>all of above</b>	n
42) The Internet mo a) Three	odel consists of b) <b>Five</b>	layers. c) Seven	d) Eight
13) The process-to-լ layer.	process delivery of	the entire message is the	responsibility of the
a) Network	b) Transport	c) Application	d) Physical
43) The lav a) <b>Physical</b>		est to the transmission m c) Network d)	
	e available to netw b) Physical	ork users through the c) Transport	layer. d) <b>Application</b>
•		e upper to the lower laye c) Rearranged	





46)  The	layer lies between the	e network layer and t	the application layer.	
a) Physical	b) Data lin	k c) <b>Transport</b>	d) None of the above	
•	etween the physical la	-	-	
a) <b>Network</b>	b) Data link	c) Transport	d) None of the above	
48) When data ar read by B's		evice A to device B, th	ne header from A's layer 4 is	
	b) <b>Transport</b>	c) Application	d) None of the above	
49) The	ayer changes bits into	electromagnetic sig	nals.	
a) <b>Physical</b>	b) Data link	c) Transport	d) None of the above	
50) Which of the a) Remote log- c) Mail service		tion layer service? b) File transfer and d) <b>All the above</b>	d access	
a) Man b) The c) <b>Stan</b>	OSI model developed? ufacturers disliked the rate of data transfer v dards were needed to e of the above	e TCP/IP protocol suit vas increasing expon	entially	
52) <mark>The</mark>	model shows how the	network functions o	f a computer ought to be	
organized. a) CCITT		O d) ANSI		
medium.			over the physical	
a) programs	b) dialogs	c) protocols	d) <b>bits</b>	
54) The OSI mode a) three	el consists of b) five		d) eight	
55) In the OSI mo are	del, as a data packet r	noves from the lowe	r to the upper layers, headers	5
	b) <b>removed</b>	c) rearranged	d) modified	
	del, when data is tran ead by B's lay		A to device B, the header from	m
a) Physical			d) presentation	



			b) process-to-process message delivery d)updating and maintenance of routing tables					
	In the OSI model, a) Transport	= =		= =				<del>_</del> -
	When a host on n does the router lo		nds a n	nessage to a	host or	netwo	ork B, which	n address
ā	a) Port	b) <b>logical</b>		c) physical			d) none of	the above
-	To deliver a mess	must be consi	ulted.					t, the
ā	a) <b>Port</b>	b) IP	c) phy	ysical	d) nor	ne of th	ne above	
	IPv6 has a) 32	-bit addresse b) 64	es.	c) <b>128</b>		d) vari	iable	
62)	ICMPv6 includes	·						
6	a) IGMP	b) ARP		c) <b>RARP</b>		d) a ar	nd b	
	The layer a) Physical			noving frame c) transport				
j	The layer ncludes the logical	ıl addresses o	of the s	sender and re	eceiver	•		
ā	a) physical	b) data link		c) <b>network</b>		d) nor	ne of the ab	ove
	Thelav	yer is respons	sible fo	or the deliver	ry of a r	nessag	ge from one	process to
ā	a) Physical	b) transport	:	c) network		d) Nor	ne of the ab	ove
	The Internetwork a) reliable b) co						d) <b>none of</b>	the above
67)	is a prod	cess-to-proce	ss pro	tocol that ad	lds only	/ port a	addresses, c	hecksum
	error control, and a) TCP	length inforn b) UDP	nation	to the data to the c) <b>IP</b>	from th		er layer. ne of the ab	ove
68)	prov	vides full tran	sport	layer service	s to app	olicatio	ons.	
ā	a) TCP	b) UDP		c) ARP		d) nor	ne of the ab	ove





69) The ac defined by its LAN		as the link address	, is the address of a noo	de as
	b) <b>physical</b>	c) logical d) ı	none of the above	
70) Ethernet uses a _ card (NIC).	physical ad	dress that is imprir	nted on the network into	erface
a) 32- bit	b) 64- bit	c) <b>6- byte</b>	d) none of the above	!
71) The created diverse systems t		e Open Systems In	terconnection, which al	lows
a) OSI b) <b>IS</b>	O c) IEEE	d) none of	f the above	
compatible netwo	model provious orking protoco O c) IEEE	ls.	the development of unit	versally
73) The physical, dat a) user			support layers. b) d) neither (a) r	or (b)
74) The session, pres a) <b>user</b>			he support layers. b) d) neither (a) r	
	er links the networ b) network		nd the user support laye d) session	rs.
76) The layer physical medium.		functions required	to transmit a bit strean	n over a
a) transport	b) network	c) data link	d) <b>physical</b>	
77) The layer without errors.	er is responsible fo	r delivering data u	nits from one station to	the next
a) transport	b) network	c) <b>data link</b>	d) physical	
78) The layer		the source-to-dest	ination delivery of a pa	cket
a) transport		c) data lin	k d) physical	
79) The la	yer is responsible f	or the process-to-p	process delivery of the e	entire
a) <b>transport</b>	b) network	c) data link	d) physical	



80) The lay communicating		ains, and synchro	nizes the interactions between
_	b) network	c) <b>session</b>	d) physical
	ayer ensures interope of data into a mutual		communicating devices through
	b) network		
82) The	layer enables the us	ers to access the I	<mark>network.</mark>
a) transport	b) application	c) data lin	k d) physical
83) TCP/IP is a a) <b>seven-layer;</b> c) six-layer; bef	before	ocol suite develop b) five-layer; be d) five-layer; aft	
application laye	layer is equivalers of the OSI model. b) <b>network</b>		ed session, presentation, and k d) physical
85) The addre a) <b>physical</b>	ess uniquely defines a b) IP	host on the Inter c) port	rnet. d) specific
86) The addr a) physical	ress identifies a proce b) <b>IP</b>	ss on a host. c) port	d) specific
87) Ifthe ACK value handshake?	e is 200, then what by	te has been recei	ved successfully TCP/IP
a) 199	b) 200	c) 201	d) 202
	er the load reaches thes sharply s sharply	b) Increas	hputses proportionally with the load es proportinolly with the load
	ernetworking device ne destination node b		om one network device and
a) Switch	b) Router	c) Hub	d) Bridge
90) Which of th	ne following event is r	not possible in wir	reless LAN?
<b>a) collision det</b> c) multi-mode c	ection data transmission		Acknowledgement of data frames Collision avoidance



routing algo	·	P) is an intra-domain	Trouting based on
a) Distance vector	b) link state	c) path vector	d) OSPF
91) is a loops.	subset of a netwo	rk that includes all th	ne routers but contains no
a) Spanning Tree	b) LEACH	c) Spider Structu	re <b>d) Spider Tree</b>
93) Which pf the follo a) Radio broadcas c) Local telephor	sting	b) Sa	atellite communications ellular telephone system
94) The of errors a) Detection; correct c) Creation; correct	rection	b) C	orrection; detection reation; detection
95) How the redunda  a) By sending the c) By creating sm		b) using two diffe	errors. erent coding methods. tra bits with data.
96) The sublamethod and framing. a) MAC	ayer is responsible by MII	for the operation of t	the CSMA/CD access  d) Datalink
199.34.76.128/29. Ho	w many addresses		vith the starting address
98) Which of the follo transport protocol a) Simple Mail Tr c) Simple Networ		b) Real-tim	es NOT use UDP as ne Transport protocol Name System(DNS)
99) Which all transpo	rt layer header flag	gs are involved while	establishing a
	SYN and ACK	c) SYN, ACK and I	FIN d) FIN and ACK
100) Identify the class <b>A. Class A</b> B. Class B	of the following IP	address : 4.5.6.7	

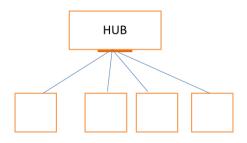


C. Class C D. Class D				
101) IEEE has defined covers the physical a	-		N, called	, which
A. IEEE 802.3	B. IEEE 802.	<b>C. IEEE 802.</b>	11	D. IEEE 802.2
102) Repeaters funct A. Physical				D. Transport
103) An IPv4 address A. 16	consists of B. 32	bits C. 64		D. 128
104) may l <b>A. Bandwidth</b> B				channel annel latency
105) The port number A. 20 B. 21		D. 81		
106) Identify the class A. Class A B			D. Class D	
107) The file transfer A. Data Centric Archi C. <b>Client Server Arch</b>	tecture	on B. Service Oriente D. Peer to peer Ar		e
108) What does the s A. Unauthorised <b>B</b> Timeout		r code 404 mean? C. Forbidde	n	D. Request
109) Conversion of D A. DHCP <b>B</b>	omain Name to I . DNS	P address is done I C. VPN		vers
110) The default por A. 20 B	t for SSH client co . 21		D. 23	
111) IPv6 address is a			dress <b>D. 12</b>	8 bit address
112) Which is a reser a)172.12.0.0 <b>b</b>		c) 182.12.0.0	d) 162.12.0.	0

#### **DCN Question Bank**



113) How many collisions and how many broadcast will happen



a)Hub: 1broadcast 4collisionb)Hub: 4broadcast 4collisionc) Hub: 4broadcast 1collisiond) Hub:1broadcast 1collision

114)	Port 443	is reserve	ed for wh	nich	prototo	col
------	----------	------------	-----------	------	---------	-----

- a)CUPS
- b) HTTP

- c)HTTPS
- d)TCP IP

115) In error correction, the receiver asks the sender to send the data again.

- A. forward
- B. backward

#### C. retransmission

D. none of the above

116) Internet is a	
A. ID Switched Network	

- **B:** Data Switched Network
- C: Circuit Switched Network
- C. Circuit Switched Network
- D: Packet Switched Network

A) bus

B) Star

- C) Ring
- D) Mesh

118) A\_\_\_\_\_\_ is a connecting device that operates in the physical and data link layers on the Internet model.

- A) router
- **B)** Repeater
- C) Bridge
- D) Gateway
- 119) Identify the class of the following IPv4 address: 191.1.2.3.
- A) A
- B)B
- C) c

D) D

120) Circuit switching takes place at the layer.

- A) physical
- B) data line
- C) network
- D) transport

#### **DCN Question Bank**



<ul> <li>121) HDLC is an acronym for</li> <li>A) Half—duplex digital link combination</li> <li>B) Host double-level circuit</li> <li>C) High-duplex line communication</li> <li>D) High-level data link control</li> </ul>						
122) In Ethernet addressing, if all the bits are 1s, the address is						
A) multicast	B) Broadcast	C) Unicast	D) anycast			
123) What is the first address of a block of classless addresses if one of the addresses is 12.2.2.76/27?						
A) 12.2.2.0	B) 12.22.32	C) 12.22.64	D) 12.22.72			
124) Which application layer protocol allows administrators to log into a sewer from remote locations and control a server as though logged in locally?						
A. DNS	B. FTP	C. SMTP	D. Telnet			
125) What protocol is allowed a user to retrieve her/his mail from the mail server to her/his mail reader?						
A. POP3	B. FTP	C. SMTP	D. SNMP			
126) Which application layer protocol allows administrators to log into a server from remote locations and control a server as though logged in locally?  A: DNS  B: FTP  C: SMTP  D: Telnet						
127) Which of the following is uses IEEE 802.11 at the Data link layer A: <b>WLAN</b> B:MAN C:WAN D:LAN						
128) Which OSI layer cor A: Network C: Transport	responds to the TCP UDP B: Session D: Data Link	layer?				
129) Another term for CS A: ethernet	SMA/CD and the IEEE 802 B: token ring	.3 is C: FDDI	D: token bus			
130) Which of the following protocol is used for sending or retrieving emails? A: SMTP B: POP3 C: IMAP D: All of the above						
C. HVIAF	D. All Of the above	<b>C</b>				

131) The technique of temporarily delaying outgoing acknowledgements so that they

C: piggybacking

can be hooked onto the next outgoing data frame is known as

B: replaying

A: retransmitting

D: multicasting

132) Example of a device that uses duplex communication





A: radio	B:	telephone				
C: television	D:	surveillance camera	S			
134) In CSMA/CD,	CD stands for					
A: contention detection		B: collision detection				
C: carrier detection		D: congestion detection				
135) Multiple ethe	ernet segments c	an be connected by				
A: port	B: bus	C: repeater	D: adap	ter		
136) The of	errors is more d	ifficult than the				
A) Detection; correction  B) Correction; detection				tion		
C) Creation; correction		D) Creatio	n; detectio	on		
1.7) What is the si	ze of MAC(Ether	net) address?				
A: 16 bits	B: 32 bits	C: 4	8 bits	D: 64 bits		
138) The protocol	does Three-Way	Handshake for netv	vork comm	nunication is?		
A: TCP	B: UDP	C: IP		D: Ethernet		
139) The protocol	is not part of Ap	plication Layer of OS	31?			
A: http	B: telnet	C: ftp	D	: icmp		
140) An IP-addres	s with all host bit	ts set to 1 is called?				
A: Multicast	B: Class-less	C: Class-fu	ll D	: Broadcast		
141) A port addre	ss in TCP/IP is	bits long.				
a) 32 b) 48	c) <b>16</b>	d) none of the al	oove			