

Networking Chapter 2 Name	_	
TRUE/FALSE. Write 'T' if the statement is		4)
1) In regards to CAT5e / CAT6 cable of Ethernet or FastEthernet, pins 1/2		1)
2) A CAT5e / 6 link test, tests from on	e termination to another.	2)
3) The six subsystems of a structured	cabling system are the following:	3)
Building Entrance	Equipment Room	
Backbone Cabling	Telecommunications Closet	
Vertical Cabling	Work Area	
4) The following is the color map and	pin numbers for T568A:	4)
1. White-Green		
2. Blue		
3. White-Orange		
4. Green		
5. White-Blue		
6. Orange		
7. White-Brown		
8. Brown		
5) The following is the color map and	pin numbers for T568B:	5)
1. White-Orange		
2. Orange		
3. White-Green		
4. Blue		
5. White-Blue		
6. Green		
7. White-Brown		
8. Brown		
6) A full channel test tests all the link	elements from the computer through	6)
patch panel to the wall plate.		
7) NEXT stands for Near End Cross T	alk and a low db value is desirable.	7)
8) A NEXT measurement of 59.5 dB is	s made on wire pairs 1-2/3-6. A	8)
NEXT measurement of 51.8 dB is m	nade on wire pairs 3-6/7-8. Pairs	
3-6/7-8 have the best NEXT perform	nance measurement.	
9) Only two wire-pairs are used to ob	tain a proper Power Sum	9)
measurement.		
10) Signals travel in a cable at some per	rcentage of the velocity of light. The	10)
term for this is called the nominal v	•	
11) The TE49A write and a read	the EIA/TIA 568A standard while	11\
11) The T568A wire order is used with the T568B wire order is used with t		11)

12) Delay skew is critical because		~	-	12)
are significantly different, the			ver at a	
different time potentially cre	ating distortior	of the data.		
13) Patch cables are too short to l	oe tested.			13)
MULTIPLE CHOICE. Choose the on	e alternative th	at best comp	letes the statem	ent or
answers the question.				
14) Which does permanent netw	orking cabling	withing a bu	ilding belong	14)
to?				
A) Vertical Cabling		Work Area		
C) Equipment Room	D)	none of the a	bove	
15) What is the overall length lin	nitation of an ir	dividual cab	le run from the	15)
telecommunications closet to	a networking	device in the	work area?	
A) 10 meters	B)	100 meters		
C) 10k meters	D)	100 k meters		
16) What is the data rate for Ethe	ernet?			16)
A) 10 Mbps				
B) 100 Mbps				
C) 1000 Mbps				
D) 10 kbps				
E) none of the above				
17) How many wires are in a CA	T5e/6 twisted-	oair cable?		17)
A) 12 wires B) 8 wi	res C)	4 wires	D) 6 wires	
18) How many pins does an RJ-4	5 modular plug	g have?		18)
A) 4				
B) 6				
C) 8				
D) 16				
E) none of the above				
19) horizontal cabling				19)
A) is cabling that extends of	out from the tel	ecommunica	tions closet into	
the LAN work area.				
B) is cabling that extends of	out from the wo	ork area into	the LAN.	
C) is cabling that extends of area.	out from the ba	ckbone into t	he LAN work	
D) is cabling that extends of work area.	out from the eq	uipment rooi	m into the LAN	
E) none of the above				
20) The basic blocks of horizonta	l cabling consid	t of: (coloct	two)	20)
A) switch or hub	U	routers		20)
C) backbone cabling	•	patch panel		
21) A UTP Certification report li	sts the followin	g.		21)
Length 12 36	45	O.	78	,
285	288	284	283	
Select the correct answer.				

A) The test must be repeated.B) Insufficient information to obtain an answer.C) The cable length is too long.D) The cable passes the length test.	
 22) What type of cable is currently recommended for LAN work areas. A) shielded twisted pair B) CAT6 shielded twisted pair C) CAT 5e UTP D) CAT6 UTP E) CAT7 UTP 	22)
 23) What is the benefit of shielded twisted pair cable? A) ease of installation B) excellent EMI protection C) less expensive D) preferred by industry for all installations E) none of the above 	23)
24) A UTP Certification report lists the following. Length 12 36 45 78 ! 310 308 ! 311 307 Select the correct answer. A) The cable fails the certification test. B) Pairs 36 78 will be certified. C) Pairs 12 45 will be certified. D) The cable has passed the certification test. E) The ! sign indicates the cable pair meets or exceeds Power Sum test criteria.	24)
25) The length difference in wire pairs for UTPA) indicate the cable should not be certified.B) indicate the cable should be certified.C) are due to the difference in the cable twists for each wire pair.D) are due to poorly manufactured cable.	25)
26) The nominal velocity of propagation for UTP A) should be close to 1 B) should be close to 100m C) speed of light D) .should be some percentage of the speed of light.	26)
 27) The proper alignment of the transmit and receive pairs in a CAT5/5e/6 UTP cable requires A) the transmit (+) and (-) signals connect to the receivers (+) and (-) signals respectively. B) the transmit (+) and (-) signals connect to the receivers (-) and (+) signals respectively. C) the transmit (-) and (+) signals connect to the receivers (-) and (+) signals respectively. D) none of the above 	27)
28) In the balanced mode of operation for UTP	28)

B) the (-) side connects to groundC) neither wire in the wire pairs connD) is only used with STP cable installE) is only used in high EMI environm	ations.	
29) CAT 6 UTP is recommended for use in (A) the campus network backbone cab B) only the equipment room C) the horizontal cabling for a LAN D) is not recommended in LANs E) the work area		29)
 30) A data problem is reported to the network is found to be with the UTP network connetwork administrator have done to iso correct answers.) A) Visually inspect all UTP termination B) Run a cable test using a device simmed to the ping command to verify not be pairs 4/5 7/8 to repair the content of the UTP can report. 	nnection. What steps could the late the problem. (Select all ons. nilar to the Omniscanner. etwork connectivity.	30)
31) Match the definition to the correct term. Interconnected LANs within a limited g A) Campus Network	geographic area. B) Wide Area Network	31)
C) Metropolitan Area Network 32) Match the definition to the correct term. An Ethernet system operating at 100 MI		32)
A) AUI EthernetB) Link EthernetC) Gigabit EthernetD) Fast EthernetE) none of the above		
 33) Match the definition to the correct term. Another term for network congestion. A) bottled B) bottlenecking C) constricted D) constricting E) none of the above 		33)
34) Match the definition to the correct term. Describes where the cable connects to a A) TCO C) termination		34)

A) the (+) side connects to ground.

35) Match the definition to the correct term. A graphical or text description of the wi A) Color-map B) Continuity map C) Wire-map D) Connectivity map E) none of the above		n pin to pin.	35)
36) Match the definition to the correct term. Consists of all the link elements from the A) Complete Link B) Full Channel C) Full Link D) link E) none of the above		witch.	36)
37) The main cross-connect (MC) connects t A) Telco C) floor distrributors	o B) ISP D) work station ou	tlet	37)
38) Another name for an RJ45 connector is A) 8C8P B) 8W8T	C) 8P8C	D) 8P8T	38)
39) The term for unwanted signal coupling	from		39)
one permanent link to another is called A) near-end crosstalk C) far-end crosstalk	B) Alien Crosstalk D) none of the abo		
40) 10GBase-T requires the use of over UTP A) the high data lines C) all four wire pairs	B) pins 4/5 7/8 o D) 10G is not possi	only	40)

- 1) TRUE
- 2) FALSE
- 3) FALSE
- 4) FALSE
- 5) TRUE
- 6) FALSE
- 7) FALSE
- 8) FALSE
- 9) FALSE
- 10) TRUE
- 11) FALSE
- 12) TRUE
- 13) FALSE 14) D
- 15) B
- 16) A
- 17) B
- 18) C
- 19) A
- 20) A, D
- 21) D
- 22) D
- 23) B
- 24) A
- 25) C
- 26) D
- 27) B
- 28) C 29) C, E
- 30) B, C
- 31) A
- 32) D
- 33) B
- 34) C
- 35) C
- 36) B
- 37) A, B
- 38) C
- 39) No Correct Answer Was Provided.
- 40) C