FUNDAMENTALS OF VOICE & DATA CABLING **CHAPTER 7 STUDY GUIDE**

1. List the "rules" of structured cabling:

- look for a consiste connectivity solution - plan for future grouth (10 years) - he was of total costs of ownership - maintain freedom of choice in rendors

2. What are the 5 subsystems of the structured cabling system? Describe each one.

- demone point - where the telecom company stops

- telason noom - lender Jackelone to distributed

- lacklone calling - vertical

- distributed elling - horizontal

- work may - area pervised by a TR

3. What is meant by the term "scalability"?

notionle can be upgraded ("new write, more horts, more networks") without having wordless

4. What are some of the things you can do to insure scalability in your network design?

plan network mode now agreepment is committable with other vendors odd extra colles

5. What is the TIA/EIA code that covers labeling? What are some of the general features of this standard?

606 - The labeling

6. Review the basic TIA/EIA standards that deal with cabling by filling in the following table:

Standard	What it covers
568-A/B	Commoncial Brilling Standard for Joken Wining - calle (Aussier)
569-A	Pathrays of Popaces
570-A	Peridentend of higher
606	administration - calle Cololine
607	Granding & Monday

7. What is the point in the building called where the outside cabling interfaces with the indoor cabling? How far inside a building can outside cabling come?

8. List some of the "rules" for placement of TRs

10. How are patch panels, wiring hubs, switches, etc. normally mounted in a TR? Why?

11. List some of the standards for how a TR should be physically designed.

floor must withsland 100 16/ft a hoor should swing out of room for onle exit want be fire rated physicood and paint out be fire proof a dedicated AC duplex outlets on separate circuit lighting on le invandement, minimum of 50 modes power

12. List some of the equipment/devices you normally find in a TR.

mittedes interduct (for biles)

hules cable traps patch panels distro racks

ralles
routes
pund down block
rable ballets

13. What is a "wall field"?

collection of termination Places mounted by a wall

14. List the colors used in wall fields and what each means.

15. What is another name for a cross connect (CC)?

16. Name the 568A and 568B wiring patterns:

568A Pattern	568B Pattern	
green - white	Orange - white	
green	dunne	
orange - white	groen - white	
blue	blar	
blue-white	We -white	
Orange	arcen	
brown-shite	brown white	
hrawn	brown	

17. List the pair colors in order (for Cat 5e):

18. Describe the following types of network cables:

Cable Type	Description
Straight through	save on both sides
Roll over	completely reversed
Cross over	11d & 3-6 are neversed

19. Describe the various types of patch panels (cross-connects) used in a typical data network:

CC Type	Description	
MC main	unter of network	
1C intermediate	TR for each work area	
HC horizontal	nearest The To work station	

20. Complete the following table of maximum cable runs for each of the types of CCs:

Cable type	HC to MC	HC to IC	IC to MC
Multimode fiber	2000 m	500 m	1500 m
Singlemode fiber	3000 m	500 m	2500 m
UTP voice	500 m	500 m	700 m
UTP data	90 m	90 m	90 m

21. What is a MUTO? How many users can be used in a MUTO?

a device that allows multiple users to share the same line

22. What is a CP? What is the difference between a CP and a MUTO?

consolidation point

MUTO