FVDC Worksheet

Chapter 2 - Networking Basics

1.	What are the 7 layers of the OSI model and name one keyword for each?		
	Layer 7	application	away
	Layer 6	presentation	
	Layer 5	Session	Sausage
	Layer 4	transport	throw
	Layer 3	network	not
	Layer 2	data link	do
	Layer 1	physical	okase
2.	Define and name 3 characteristics of a LAN.		
	1. combined to limited geographic open		
	2. connects exorbitations, reverse		
	3. Cound in Americas, ochools, governments. I homes		
3.	Define and name 3 characteristics of a WAN.		
	1. wear sty, country & the world		
	2. not to communicate listing queinouses		
	3.		
4.	What OSI layer do repeaters and hubs operate at?		
5.	What OSI layer do routers operate at?		
6.	What OSI layer do switches and bridges operate at?		
7.	What is the definition of a network? connected system of distriction		
8.	Give an example of a network. $\underline{a} P B X$		
9.	Which layer of the OSI model is associated with twisted pair, fiber-optic, or coaxial cable		
	ret no -	physical of lowered	e the two types? He way a relisorle is
11.	What is the def	finition of a physical topology?	the way the wines one laid gut
12.	What is the def	finition of a logical topology?	the actual way the national works
13.	Define and stat	te the advantages of a mesh to	pology. many different pulls to
	Mr Dane po	ind it me path field,	another is then

14. Name 4 characteristics of a bus topology.

- 1. Amount to looklose
- 2. broodert to each one
- 3. parine topology
- 4. collivious we likely
- 15. Name 4 characteristics of a star topology.
 - 1. connects to control point
 - 2. wat popular
 - 3. if a cable buils, others nooth
 - 4. Les collins
- 17. A MAC address works at which layer of the OSI model?
- 18. Is a MAC address a physical or logical address?
- 19. Is an IP address a physical or logical address?
- 20. What is attenuation? Decrease of a signal
- 22. What devices can decrease collisions? owitches a monters

 (and Techinally a bridge)
- 23. What is the purpose of a repeater? to requestion a signal
- 24. What hardware connectivity device(s) can you use to segment a network? _______
- 25. Draw a picture of a bus topology.



26. Draw a picture of a star topology.



27. Draw a picture of a ring topology.



28. Draw a picture of a mesh topology.

