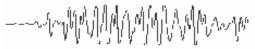
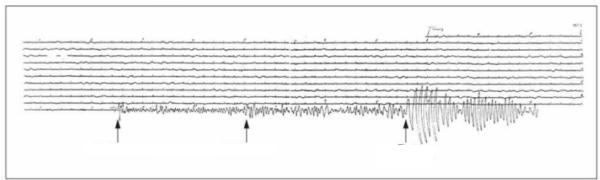
South	cal Geology n Sevier High School re Notes – Chapter 16	180	D-4-			
1.	An energy stored in the rocks bene	is a trembling or s eath Earth's surfac	haking of e.	the ground	I caused by th	ne sudden release of
2.	Tectonic forces within the Earth limits, resulting in		on rocks	that eventu	ually exceed t	heir
3.	Energy is released during earth along a break between two rock	quakes in the form k masses called a	of	·	_ waves, rele	ased from a position
4.	Define the Elastic rebound theo	ory (5pts).				
5.	The is the po originate. The	int of initial breaka is a point on E	ge and mo arth's surf	ovement al	ong a fault, w y above the f	vhere seismic waves ocus.
6.	Two types of seismic waves are waves	s - travel outward f	rom the fo	ocus in all c	directions thro	
7.	A wave is a compressional to the direction of wave propaga a. Fast (to km/sec b wave to a c. Passes through	ation. They have to). In this is a second of the second o	he followin	ng characte	eristics:	k and forth parallel
8.	An wave is a shearing (trar to the a. Slower (to km/s b wave to a c. Passes through	edirection of wave sec). arrive at recording s	propagati	ion. They h	nave the follo	
9.	(can/can't) travel throug	ves travel in a side h fluids. ves move in an elli	-to-side m	notion of the	e ground surf	
10.	. Examine the image below. Lab	el each type of wa	ve shown	1.		
	Direction of travel				_	
	Direction of travel				_	

11. _____ are recording devices used to produce a permanent record of the motion detected by seismometers.

12. The p-wave shown to the right begins as a (push/pull) motion.



13. Examine the image below, then label the waves shown at the arrows (3pts).



		A continue to a state of the st	
14.	P-	and S-waves leave earthquake focus at the (same time/different times).	
15.	firs	curve is used to determine the distance to the focus, based on time between the P- and S-wave arrival times.	een the
16.		rou missed class, then you will be required to do the following in order to get the 100 points p this given assignment: a. Go to the website: http://www.sciencecourseware.com/virtualearthquake/VQuakeExecub. Complete the exercise, then print your "Certificate of Completion", or e-mail it to Mr. Bra	te.html
17.		e size of earthquakes is measured in two ways - intensity and magnitude. What scales are usesure these two criteria? a. Intensity - b. Magnitude -	ised to
18.		cording to the Richter Scale, how much stronger is a magnitude 7 earthquake than a magniturthquake? times stronger	ude 4
19.	Aco	cording to the Modified Mercalli Scale, what happens at a level VI earthquake?	
20.	Acc	cording to the Richter Scale, how many earthquakes of magnitude 8 or greater happen in a g ar?	jiven
21.	Со	mplete the following sentence correctly:	
	Sei	ismic risk is determined based on the assumption that large future earthquakes	
22.	Na	me five effects that are associated with earthquakes that can cause damage. a. b. c. d. e.	
23.	A_ mo	is a very large sea wave that is caused by the sudden upward or dovovement of the sea floor during submarine earthquakes.	vnward
24.	Мо	est earthquakes occur in narrow geographic belts which mark tectonic plate	
25.	Ne	arly all intermediate- and deep-focus earthquakes occur in zones.	

	quakes occur at each of the thre rgent. What kind of earthquake				
a.	At divergent boundaries,		forces produce	efocus	
	At divergent boundaries, fa	aults.			
b.	At transform boundaries,along	faults.	forces produce	focus quake	? S
C.	At convergent boundaries, quakes along	faul	forces	produce shallow- to deep-focu	JS
27. Why a	are most earthquakes generated	I in the crust a	ind not in the mantle	(5pts)?	
28. Why a	are earthquakes so difficult to pro	edict (5pts)?			
	lo some earthquakes cause sigr juakes have little effect at the Ea			oss of life, while other, larger	
30. Do ea	rthquakes cause tectonic plate เ	motion (5pts)?			