GLY 4310 Homework Exercise 2

Name

Review of Extrusive Igneous Rocks

The following homework is based on the lab lectures for labs 4 and 5. The PowerPoint versions are available on the web pages.

. MORB stands for			
2-3. Basalts displaying a "pillow" structure are believed to have formed in one of two ways. These are:2.			
			3
			-5. In the terminology used in the United States, the major minerals of diabase are
4)and 5)			
S. Diabasic texture is (name and describe):			
'-9 The major minerals of andesite are:			
') major felsic mineral (name and variety)			
3) most common mafic mineral			
) other possible mafic minerals and and			
0. What is the major difference between dacite mineralogy and andesite			
nineralogy?			
1-12 A lithic fragment is 11), while a vitric fragmen			
s 12)			
3-14 Compare bombs and blocks.			
3)			
4)			
5. The names of extrusive rocks, when based on phenocrysts, should be preceded			

16. A	is an individual particle
ejected during a volcanic eruption, and is usual	ly classified according to size.
17-19 Welded tuff is siliceous tuff indurated by	the welding together of glass
particles under the combined action of three ag	ents, which are:
17)	
18)	
19)	
20. Rhyolite grades into	
21-22 Typical alkali feldspars phenocrysts in rh	yolite are:
21)	or
22)	
23. What is the P/(A+P) range for latite?	
24-26. Trachyte mineralogy:	
24) Major type of feldspar	_
25) Compositional range of plagioclase:	
26) Most common mafic:	
27-29. What are the water contents of the follow	wing rocks?
27) Obsidian	
28) Pearlite	
29) Pitchstone	
30. The chemical composition of both pumice a	and vitrophyre is like that of which
extrusive rock?	
4310\HW\4310HW2_S20 February 21, 2020	