

RM5 JRQ

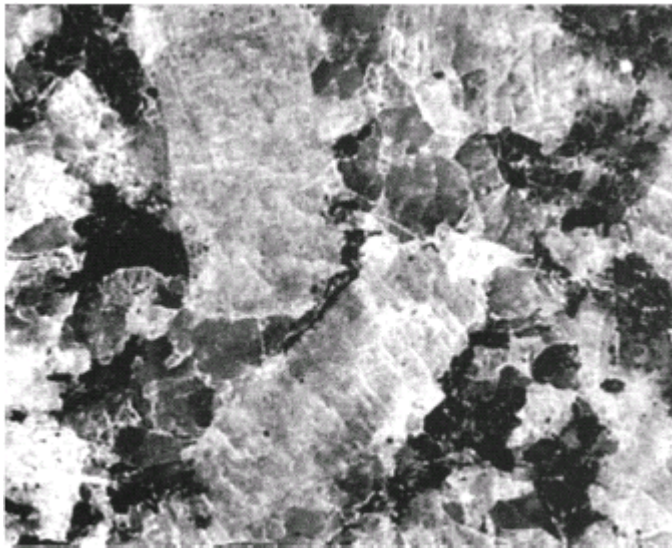
Name _____

1. An extrusive igneous rock with a mineral composition of 35% quartz, 35% potassium feldspar, 15% plagioclase feldspar, 10% biotite, and 5% amphibole is called

- | | |
|-------------|-------------------|
| 1. rhyolite | 3. gabbro |
| 2. granite | 4. basaltic glass |

2. The accompanying photograph shows the intergrown crystals of a pegmatite rock.

Which characteristic provides the best evidence that this pegmatite solidified deep underground?



(Actual size)

- | | |
|----------------|------------------------|
| 1. low density | 3. felsic composition |
| 2. light color | 4. very coarse texture |

3. Which igneous rock, when weathered, could produce sediment composed of the minerals potassium feldspar, quartz, and amphibole?

- | | |
|------------|-------------|
| 1. gabbro | 3. andesite |
| 2. granite | 4. basalt |

4. Which three minerals are most commonly found in the igneous rock granite?

- | | |
|-------------------------------------|--|
| 1. amphibole, calcite, and hematite | 3. plagioclase feldspar, pyroxene, and olivine |
|-------------------------------------|--|

2. amphibole, biotite mica, and gypsum

4. plagioclase feldspar, potassium feldspar, and quartz

5. Which intrusive igneous rock could be composed of approximately 60% pyroxene, 25% plagioclase feldspar, 10% olivine, and 5% amphibole?

1. granite

3. gabbro

2. rhyolite

4. basalt

6. The table provides information about the mineral composition of a sample of beach sand from Hawaii.

If the sand deposited on this beach recently weathered from only one type of igneous rock, the rock was most likely

Mineral	Composition (%)
Pyroxene	50
Plagioclase feldspar	40
Olivine	3
Amphibole	5
Unidentified minerals	2

1. granite

3. diorite

2. peridotite

4. basalt