

GLY 4200C
20 points

Name: _____
9/11/19

LAB QUIZ – Labs 1-2

You may use the printed handouts from labs 1-2, as well as the write-ups you turned in for labs 1-2. You may preform standard tests including hardness, specific gravity, acid, UV, and magnetism, and may note other properties as appropriate. **NO OTHER RESOURCES MAY BE USED ON THIS QUIZ.**

4 took quiz - Numbers to the left of the question number in **red** are the number of incorrect responses. Instructor comments are in **blue**.

Mineral Properties – Answer questions 1-10 which concern the properties of minerals. Each question is worth 1 point.

1-2 Estimate the hardness of the following minerals. Give a single number estimate, not a range.

1 1. H = 3 Full credit \pm 1 unit; Half credit \pm 2 units

2 2. H = 7

3-4 Estimate the specific gravity of the following minerals. Give a single number estimate, not a range.

2 3. SG = 7.5 Full credit \pm 0.5 units; Half credit \pm 1 unit

1 4. SG = 2.1

5-6 Give the cleavage or fracture of the following two minerals.

1 5. Basal cleavage (1 direction)

4 6. Uneven fracture

7-8 Give the luster of the following two minerals.

2 7. Resinous

0 8. Pearly

9-10 Name one significant property which may be used to identify the following minerals. These properties may not be color, streak color, luster, hardness, cleavage or specific gravity.

0 9. Magnetic

1 10. Fibrous habit, Fluorescent

Mineral Identification – Identify each mineral specimen (Be sure to identify the variety of the mineral, if any). Answer any additional questions concerning the specimens (1 pt each).

0 11. Copper

Name one significant property that helps identify this mineral

2 12. Bornite - Iridescence

1 13. Cinnabar

Name one significant property that helps identify this mineral.

2 14. Orpiment - micaceous habit, color

1 15. Pyrite

Name one significant property that helps identify this mineral.

3 16. Sphalerite

0 17. Tetrahedral

0 18. Realgar

0 19. Millerite

2 20. Bismuth