

Midterm Laboratory Exam Review

ESC 115 Physical Geology

Labs 1–6

1. Identify the main geologic influences on Dubuque, including minerals, glaciation, and the river.
2. Read a topographic map, determining latitude, longitude, contour interval, and main features,
3. Determine relative age of sedimentary rocks,
4. Calculate a topographic profile or topographic gradient, given a contour map, and
5. Identify the following minerals without a key, giving your reasoning:
 - calcite
 - feldspar
 - galena
 - graphite
 - gypsum
 - halite
 - hematite
 - magnetite
 - malachite
 - mica
 - pyrite
 - quartz
6. Identify the following igneous rocks:
 - pumice
 - obsidian
 - rhyolite
 - granite
 - andesite
 - diorite
 - basalt
 - gabbro
7. Identify the following sedimentary rocks:
 - shale
 - sandstone
 - conglomerate
 - breccia
 - limestone
8. Identify the following metamorphic rocks:
 - gneiss
 - schist
 - slate
 - marble
 - quartzite