

# University of the State of New York.

83D ACADEMIC EXAMINATION.

## GEOLOGY.

FRIDAY, March 8, 1889, —Time, 1:30 to 4 P. M. only.

40 credits, necessary to pass, 30.

1. Define dike, concretion, synclinal strata, strike, formation, outcrop . . . . . 6
2. Distinguish between igneous and metamorphic rocks and mention an example of each . . . . . 4
3. To which group of minerals does each of the following belong: diamond, calcite, common salt, coal? . . . . . 4
4. Mention three kinds of iron ore . . . . . 3
5. Describe a geological effect which you have observed in your own neighborhood produced by water; the wind; alternate freezing and thawing . . . . . 3
6. What are fossils mud-cracks and how were they formed? 2
7. Describe the principle of the artesian well and illustrate by a drawing . . . . . 2
8. Upon an outline map of North America indicate the position of the Archæan continent . . . . . 2
9. In what part of New York are Archæan rocks found? Devonian? . . . . . 2
10. To what age do the Salina rocks belong? Where are they found in New York State? . . . . . 2
11. Describe the formation of coal and name the principal varieties . . . . . 3
12. Mention three kinds of reptiles characteristic of the Reptilian age . . . . . 3
13. What two ages are included in Cenozoic time and what are the life characters of each? . . . . . 4

**☞ Carefully read and obey the following directions:**

**☞** Do you now, at the close of this examination, conscientiously declare that you had no previous knowledge of the questions to be proposed, that you have neither given to any other scholar, nor received from any source, explanation or other aid in answering any of them? If so, write in the next line after the end of your set of answers, near the right side of the paper, the words

*"I do SO declare."*

and underneath subscribe your name.

**☞** Every set of papers lacking this full declaration and signature, however satisfactory, in other respects, will be returned, on the presumption that the required declaration could not conscientiously be made.

**☞** Fold your MS. in proper form for filing, and indorse the last leaf with the name of the institution, your name, the subject, and the date of the examination.