

SECOND YEAR.

GEOLOGY.

EXAMINER: PROFESSOR BELL.

1. Describe the various processes by which many sedimentary rocks have attained their present hard condition.
2. What systems of formations are altogether wanting in Canada, so far as known?
3. Indicate, by means of a sketch and description, the different parts of a trilobite. Give the geological range of trilobites.
4. Explain why no workable coal has been found in Canada. Illustrate by sketches.
5. Give a short account of the geology of Cedar Island and the portion of Wolfe Island visited by the class on the 1st instant.
6. In what rocks has petroleum been chiefly found in North America? How may its origin be explained? State its chemical composition.
7. Describe the fossils, the lithological character, and the geographical distribution of the Niagara formation in Western Canada.
8. Account for the parallel grooves on the surface of the upper bed of limestone, and for the presence of gneiss boulders, along the lake shore, between Murney Point and the Principal's residence.
9. From which of the Upper Canada clays are the white bricks made? Give its relations to the other superficial deposits of the country.
10. Give a short description of the following genera and state their zoological and geological relations:—*Columnaria*, *Zaphrentis*, *Strophomena*, *Stricklandia*, *Orthoceras*, *Asaphus*, *Calymene*.