

University of Toronto.

ANNUAL EXAMINATIONS: 1875.

CANDIDATES FOR M.B.

MEDICINE.

CHEMISTRY.

Examiner: W. OLIVER, B.A.

1. Give the equation expressing the reaction of slacked lime on sal-ammoniac, in the production of ammonia; and describe briefly the properties of the gas.

2. What is the chief source of iodine, and in what form does it occur? Describe the process of manufacture, and give the chief properties of the element.

3. What is meant by the terms, atom, molecule, monad, dyad, triad. Name some bodies, illustrating the use of the last three terms.

4. Give two modes for the preparation of caustic potash, explaining the reaction in each case.

5. Sketch briefly the changes that take place, when "ferments" are added to certain organic bodies.

6. Give two processes for determining the amount of nitrogen in organic bodies; explaining when you would employ each.

7. Light is passed through a prism; explain what takes place. How many distinct spectra are there? and give as nearly as possible the limits of each.

8. Show by experiment that electricity collects chiefly on the surface of conductors; and describe a jar, illustrating the same point in the case of non-conductors.

9. Describe the construction and operation of a voltaic pile. Distinguish between quantity and intensity in voltaic electricity.