

The original of this examination paper is in the University Archive. It was discovered under the floorboards of the Croft Chapter House (one of the very earliest chemistry laboratories, located in University College) when it was refurbished as a meeting room in the 1960s.

University of Toronto

ANNUAL EXAMINATIONS 1858

FIRST YEAR.

ELEMENTARY CHEMISTRY

Examiner: HENRY CROFT, D.C.L.

1. What is the meaning of chemical affinity ?
2. What is meant by double decomposition ? Give instances.
3. What peculiarities are observed during the union of chemical substances.
4. In what respect does chemical attraction differ from all other kinds of attraction ?
5. What is meant by the specific gravity of a body ?
- *6. How may the specific gravity of a body be ascertained ?
- *7. What is meant by the boiling point of a liquid, and what circumstances cause it to vary ?
8. Describe fully the preparation and properties of hydrogen.
9. What is the percentage composition of water, and how is this ascertained ?
- *10. What impurities usually exist in water, and how may they be detected ?
- *11. Explain the nomenclature of the acids, oxides, and salts, and give the proper names for the following substances: Fe_2O_3 , S^2O_2 , SO_2 , S^2O_5 , SO_3 , MnO , SnO_2 , KO.CO_2 , KO.2CrO_3 .
12. Describe the preparation and properties of carbonic acid, and of carbon dioxide.
- *13. Describe the preparation and properties of olefiac gas.
14. From what sources are the salts of potassium obtained ?
15. What is common salt, and how is it obtained ? What is the action of sulphuric acid upon it ?
16. Give an account of the most important compounds of iron ?
- *17. Mention the proximate elements of plants and their formulae.
- *18. What is the composition of alcohol, whence obtained, and how acted on by oxygen ?

*Honor Questions.