

1. On what circumstance is the ballad founded? How has Schiller improved upon it?

2. Give scheme of the versification.

Alroy: Lord Beaconsfield.

Translate into German:

Religion, valour and genius alike inspired the arms of Alroy, but he was, doubtless, not a little assisted by the strong national sympathy of his singular and scattered people, which ever insured him prompt information on all the movements of his enemy. Without any preparation he found agents in every court, and camp, and cabinet; and, by their assistance, he anticipated the designs of his adversaries, and turned even their ingenuity to their confusion. The imperial city of Rhey was surprised in the night, sacked and burnt to the ground.

BOTANY.

PROFESSOR BAIN, EXAMINER.

1. Give an account of plant cells, showing the importance of the substances found in them; especially protoplasm, chlorophyll, starch, cellulose.

2. How are plant cells multiplied and built up into tissues?

3. Describe the various tissues and structures to be found in an ordinary leaf, such as that of a geranium.

4. Name and sketch the most important forms of leaves, as far as possible mentioning plants which bear the various forms.

5. What relationship have the parts of a flower to leaves?

6. Describe and give a diagram of a perfect flower, showing the importance of the various organs.

7. In what way are ferns reproduced? Is there anything in the reproduction of ferns corresponding to pollen in flowering plants?

8. Give the characters and general properties of the following natural orders: Cruciferae, Compositae, Gramineae, mentioning common plants belonging to each.

CHEMISTRY.

PROFESSOR DUPUIS, EXAMINER.

1. Give concise explanations, with examples, of what is meant by (a) sublimation, (b) a molecule, (c) a dyad, (d) the physical states of matter, (e) water of crystallization.

2. Show by equations by what chemical reactions the following are obtained: (a) hydrogen, (b) carbon dioxide, (c) chlorine, (d) phosphorus pentoxide.

3. How is nitric acid obtained? How would you distinguish it from hydrochloric acid and from sulphuric acid?

4. Given liquor ammoniae and necessary apparatus, show how you would obtain ammonia gas. Describe the gas as fully as you can.