AN ROINN OIDEACHAIS

(Department of Education).

BRAINNSE AN MHEADHON-OIDEACHAIS (Secondary Education Branch).

INTERMEDIATE CERTIFICATE EXAMINATION, 1935.

LOWER COURSE.

SCIENCE (Syllabus B).

MONDAY, 17th JUNE,-AFTERNOON, 4 TO 6 P.M.

[Not more than six questions to be attempted. All the questions are of equal value. Illustrate your answers wherever possible].

1. Describe how the presence of convection currents (a) in liquids (b) in gases may be determined.

Mention two cases in which convection currents serve useful purposes

- 2. How would you show by experiment that evaporation lower the temperature? Discuss this in relation to body temperature.
- 3. What do you understand by temperature? Describe how you would determine the temperature of the human body. What is the name of the instrument you would use? Draw a sketch of the instrument.
- 4. The following substances are burned separately in air (a) calcium-(b) carbon; (c) sugar; (d) a piece of potato. Describe and explain as fully as you can what happens in each case.
- 5. How would you prepare oxygen? Sketch the apparatus you would use. Compare the properties of oxygen with those of hydrogen
- 6. State the composition of ordinary air. How would you show the presence in air of any one of its constituents, and describe the properties of any two of them.

- 7. Describe the structure of a grain of wheat or barley or any cereal.

 480 describe its growth until it reaches the seedling stage.
- 8 Describe, with sketches, how young potatoes are formed in the of from the planted tuber.
- 9. Name the constituents of blood. State the functions of any per of them.
- 10. Describe, with the aid of a sketch, the structure of the skin.
- 11. Name the food constituents which are found in milk. State the functions of each in the body.
- 12. How are the following formed (a) rain; (b) fog; (c) dew; (b) snow?

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