

AN ROINN OIDEACHAIS  
(Department of Education).

BRAINNSE AN MHEADHON-OIDEACHAIS  
(Secondary Education Branch).

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LEAVING CERTIFICATE EXAMINATION, 1935.

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FULL COURSE.

PHYSIOLOGY AND HYGIENE.

SATURDAY, 22nd JUNE.—AFTERNOON, 1.30 TO 3.30 P.M.

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Not more than *six* questions may be attempted.

All questions are of equal value.

Drawings in pencil add to the value of answers.

1. Describe the structure and movements of the hip joint. What are the advantages of this type of joint ?
2. What methods are adopted to (a) prevent the development of bacteria ; (b) kill bacteria ? What is putrefaction ?
3. What is meant by (a) "accommodation," (b) the "blind spot" ? How would you demonstrate these phenomena ?
4. What are the symptoms of Diphtheria ? What precautions should be taken to prevent infection ? How is recovery brought about ?
5. What is the function of respiration ? What is the effect of severe muscular exertion upon (a) the rhythm of respiration ; (b) the output of carbonic acid ?
6. What are the differences between arterial and venous blood ? What are the functions of the blood corpuscles ?
7. What are the objections to stoves as a means of heating dwelling-rooms ? Describe two forms with which you may be familiar, and point out their respective advantages and disadvantages.

8. Discuss the relative nutritive values of the two following meals. ---  
(i) white flour bread, margarine made from vegetable fat, cold roast beef, a fresh green salad ;  
(ii) wholemeal wheat bread, butter, canned meat and prunes.
9. Describe, with sketches, the structure of the tongue. How does it function as a sense organ ?
10. On what food substances does the pancreatic juice act ? How would you demonstrate its action and the conditions under which it acts ?