



First M. B. Examination.

1891.

PHYSIOLOGY.

Examiner—MR. J. R. ADIE, M. B.

The figures in the margin indicate full marks.

1. Describe the coagulation of blood as you have yourself 140
observed it. How is this condition believed to be brought
about?

2. Give an account of the general and microscopic structure 140
of (1) a bronchus, (2) a pulmonary alveolus. Discuss the results
of Respiration in its Chemical aspects; that is, the entire
Chemical changes which take place in the Respiratory passages,
in the blood, and in the tissues.

3. Enumerate the various classes of food-stuffs, mentioning 140
the qualitative chemical constituents of each.

Trace (as far as you can) the course of the nitrogenous ele-
ment from the time of its ingestion in the insoluble proteid
form to the time of its excretion in solution.

4. Give a minute account of the arrangement of the blood- 140
vessels in the kidney. Describe the mechanism of the secretion
of urine.

5 Describe the general and microscopic appearances of a 140
transverse section of the Spinal Cord (say, in the lower cervical
region).

Enumerate the functions of the Spinal Cord.

N. B.—Insert diagrams throughout your paper, wherever you
think necessary.

Written, 700; Oral, 300.

ANATOMY.

Examiner—DR. K. McLEOD, F. R. C. S.

The figures in the margin indicate full marks.

1. Describe the first rib, and mention all the structures, 100
muscular and ligamentous, that are attached to it.

2. State the steps of dissection necessary to expose the 100
lingual artery from its origin to its bifurcation into sub-lingual
and ranine.

3. Indicate minutely the course of the nasal nerve from its 100
origin to its ultimate distribution.

4. Give the Anatomy, structural and relational, of the 100
duodenum in full detail.

Written, 400; Oral, 400; Practical, 200.



MATERIA MEDICA.

Examiner—RAI LALMADHAB MUKERJEE, BAHADUR, L. M. S.

The figures in the margin indicate full marks.

1. Give the physical and chemical characters of Nitrite of Amyl, of Nitroglycerine, and of Spiritus Ætheris Nitrosi. How are these drugs severally administered? Describe and contrast their physiological actions. 150

2. Describe the preparation and action of Acidum Hydrocyanic Dilutum. Enumerate the official preparations which contain Hydrocyanic Acid and give the proportion of the real acid in each. 100

3. Give an account of the Cinchonas, and their derivatives, with their officinal preparations, physiological action, therapeutic uses and doses. 150

4. What is meant by the term Incompatibility as regards drugs, and illustrate what you mean with examples. 50

5. Enumerate and classify the various remedies used for their effect on the Respiratory organs, and give an account of the action of the drugs known as Expectorants. 150

Written 600. Oral 200. Practical 200.