

1028/29/11

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No. 2.

McGILL UNIVERSITY.

FACULTY OF MEDICINE.

EXAMINATION IN PHYSIOLOGY FOR THE MORRICE SCHOLARSHIP.

MARCH 10TH:—9 TO 12 A.M.

I.

1. Give a detailed account of the Epithelium of the Respiratory Tract, the Bladder and the Skin (drawings).
2. A minute description of (a) Glands of Stomach, (b) Intestinal villus (drawings).

II.

Proteids : (a) Composition, (b) Classification or relations, (c) Properties and distribution, (d) Tests. Whenever possible show how your statements may be put to proof.

III.

1. Show how an Arterial Schema may be constructed, and what points of the circulation may be illustrated by it.
2. (a) Indicate graphically the character of the sphygmographic tracings obtained from an Arterial Schema, and discuss them.  
(b) Compare these with the corresponding tracings from an artery. Explain the latter.
3. Compare Arterial and Venous Pressure, and state how the differences may be illustrated practically.
4. State what the effect would be on Blood Pressure of the following : (a) Dyspnoea, (b) Weak stimulation of vagus. (c) Strong stimulation of vagus, (d) Stimulation of Depressor (tracings). Which end of the divided nerve should be stimulated, and what the explanations of the effects?
5. Indicate the changes in the Respiration when both vagi are cut in a chloralized rabbit.
6. Enumerate the principal properties of muscle and nerve, and state how they may be practically demonstrated.
7. What points have been experimentally ascertained regarding the reflexes of the spinal cord of frogs, and how?

N.B.—Any six of these seven to be answered.