

12. 0.31 of a gramme of a substance gave on combustion, .44 of a gramme of carbon dioxide and .27 of water, its vapour density is 2.152, air equal 1; give formula of substance.

{Only 10 questions to be answered}.

SECOND YEAR.

PHYSIOLOGY.

Examiners: WESLEY MULLS, M.D.
 F. G. FINLEY, M.D.

1. Give the briefest possible answers to the following: (a) use of haemoglobin; (b) cause of second sound of the heart; (c) re-action of each of the digestive secretions; (d) principal ingredient of the solids of urine; (e) its amount; (f) chemical re-action of blood; (g) chemical re-action of urine; (h) cause of the heat of the body; (i) the essentials in reflex action; (j) parts derived from the epiblast; (k) principal refracting medium of the eye; (l) functions of the liver; (m) anatomical relations of the blood supply of the liver; (n) chemical constitution of food stuffs; (o) functions of the medulla oblongata; (p) average pulse rate in a man of 25 years of age; (q) average rate of respiration in the same.

2. The Blood: (a) general constitution; (b) purpose; (c) variations; (d) maintenance of its equilibrium.

3. Discuss the relations of the mechanical and the vital in the circulation.

4. Asphyxia: (a) phenomena; (b) explanation.

5. Compare the stomach and its work in different animals.

6. Figure the different tracts of the spinal cord and discuss their functions.

7. Connect the gross and microscopic anatomy of the kidney with its functions.

ANATOMY.

Examiners: Prof. SHEPHERD, M.D.
 H. S. BURKETT, M.D.

1. The skull cap having been taken away, name in proper order the structures it is necessary to remove to expose the third ventricle of the Brain.

2. Dissection necessary to expose the triangular ligament.

3. Describe shortly any three of the structures in apposition with the anterior surface of the abdominal aorta.

4. Attachments, nerve supply and actions of the muscles which flex the elbow joint.

5. Describe the male bladder and its method of development.

* For students of Comparative Medicine only.