

**SECOND YEAR.****ANATOMY.**

*Examiner*..... PROF. SHEPHERD, M.D.

1. The abdomen having been opened, mention in proper order the structures it is necessary to remove to expose the portal vein. How is this vein formed?

2. Give the dissection necessary to expose scalenus anticus muscle.

3. Describe shortly the actions of the muscles supplied by the great sciatic nerve, and give the origin and insertion of any six of these muscles.

4. The scapula. How is it ossified? Describe the part taken by it in the formation of the shoulder girdle, and contrast it with the os innominatum. With what bones in birds is it homologous?

5. Describe the convolutions of the brain supplied by the middle cerebral artery. What central parts of the brain are supplied by this vessel.

6. Give a short description of the uterine appendages, mentioning method of development.

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Candidates are required to answer four questions only, including the first two.

**PHYSIOLOGY.**

*Examiner*..... WELLEY HILLS, M.A., M.D.

1. Explain how the structure and functions of Amoeba and Hydra throw light upon general physiology.

2. Discuss the structure and functions of placental villi; and trace resemblances elsewhere with their lessons.

3. Give (a) Chemistry of the blood. (b) Relations of blood to tissue lymph. (c) Explain how the latter is prepared and removed.

4. Compare different kinds of stomachs anatomically and functionally.

5. Explain how the co-ordination of the different parts of the vascular system is accomplished.

6. Compare secretion in a milk gland, in the kidneys, and in a salivary gland.

7. Trace a motor impulse from its origin to the periphery. How are the different centres of the brain correlated?

8. Compare the different sensory organs (senses) anatomically and functionally.