

be sufficient to show you how to examine and prepare the tissues, yet I hope to be able to arrange for another hour in the week, when you can have access to the microscopes, and study your specimens. We shall try to carry out on each day the appointed work, but I expect you all to keep a sharp look out in the Hospital, and obtain any interesting specimens that are about. They do not always come to hand when wanted, and must be examined as we get them. Some of you, no doubt, will want microscopes of your own, and I am negotiating to get an agency established here for these instruments, whereby they can be supplied to the students at cost price, and I am in hopes of being able to obtain the sanction of the Government to pass them into the country free of duty for educational purposes. I trust the course to-day inaugurated contains the promise of better things to come; and I look forward to the time—not far distant I believe—when we shall have a well equipped Physiological Laboratory, in which students may not only obtain a practical knowledge of this important subject, but also, under the superintendence of a skilled assistant, be able to carry out and extend their physiological studies.

#### SYNOPSIS OF THE COURSE.

DEMONSTRATION I.—General description of the Microscope. How to clean it. How to tell its magnifying power. How to draw with it. Examination of dust, cotton fibres and air bubbles.

DEM. II.—Protoplasm. Amœba. Cyclosis in Anacharis. White blood corpuscles.

DEM. III.—Red blood corpuscles of Frog, Fish, Bird and Man. Hæmoglobin crystals from Rats' blood. Hæmin crystals. How to examine blood stains.

DEM. IV.—Epithelium: squamous, cylindrical, glandular and ciliated.

DEM. V.—Connective tissues. Corpuscles. White fibrous and elastic tissues. Adipose tissue. Pigment.

DEM. VI.—Tendon, cartilage, bone and tooth.

DEM. VII.—Muscle, voluntary and involuntary.

DEM. VIII.—Blood vessels. How to inject.

DEM. IX.—Method of hardening tissues. How to cut sections. Liver.

DEM. X.—Lung.

DEM. XI.—Alimentary canal.