

5. Discuss the anatomical and physiological relations of the entire visual nervous mechanism from the retina backwards, with references to experiments and their analogues.
6. Indicate by a diagram the paths of the spinal cord as marked out by degeneration; and discuss briefly the whole subject of conduction in the spinal cord and brain.
7. Discuss fully the subject of muscular tone.

N.B.—Special importance will be attached to the use of diagrams and references to experiments, specimens, etc., seen.

ANATOMY.

Examiners..... { PROF. F. J. SHEPHERD, M.D.
LECTURER H. S. BIRKETT, M.D.
JOHN ELDER, M.D.

- I. Dissection necessary to expose the omo-hyoid muscle.
- II. The thorax being opened, name in proper order the parts it is necessary to remove to expose the thoracic duct.
- III. Describe shortly the tributaries of the inferior vena cava.
- IV. Describe the sternum and mention its method of ossification and the muscles attached to it.
- V. Describe the rectum, giving its relations in both male and female, and its mode of development.
- VI. Course and relations of the nerves supplying the serratus magnus, obturator internus, crico-thyroid, and deltoid muscles.
- VII. Mention in proper order the parts intervening between the island of Reil and the lateral ventricle.

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

CHEMISTRY.

Examiners..... { PROF. G. P. GIRDWOOD.
PROF. R. F. RUTTAN.

1. Describe two methods of obtaining the specific gravity of bodies: (a) in liquid form; (b) in gaseous form.
2. How are (a) the intensity, (b) the quantity, and (c) the mechanical equivalent of heat measured?
3. State and define the commonly employed units of electrical measurement.
4. Explain briefly and illustrate by example what is understood by the terms, conservation of energy, correlation of forces, physical isomerism and homologous series.
5. State the constitution of the atmosphere. How may its constitution be affected by (a) plant and animal life, (b) rise of temperature, and (c) solution in water.