

5. What is meant by a primary and secondary current?

Describe the difference between them.

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### HISTOLOGY.

*Examiner*..... PROF. G. WILKINS, M.D., M.R.C.S., ENG.

1. Describe the structure of lymphatic vessels and glands. Where found? Name some lymph glands.

2. Describe a medullated nerve-fibre.

3. Describe the mucous and submucous coat of the digestive tract, commencing at the oesophagus and terminating in the large intestine.

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### SECOND YEAR.

#### CHEMISTRY.

*Examiner*..... PROF. G. P. GIRDWOOD, MD.

1. Describe the method of making a galvanic battery, simple and compound.

What are the differences between them?

What would you obtain by decomposing water, Hydrochloric Acid and Potassium Sulphide in solution by a galvanic current?

2. What is the actinic portion of the spectrum?

Give examples of the effect of light producing chemical action.

3. What mechanical contrivances depend for their action upon the weight of the atmosphere?

4. Describe preparation and properties of Nitric Acid and Ammonia.

5. Give a summary of what occurs where a jet of illuminating gas is burning.

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#### PRACTICAL CHEMISTRY.

*Examiner*..... PROF. G. P. GIRDWOOD, M.D., M.R.C.S.E.

1. What weight of copper is necessary, to decompose sufficient sulphuric acid to yield 5.52 litres of sulphur dioxide?