

position and its formula? How do you account for the presence of Carbonate of Ammonium in stale Urine? 7. Describe different methods by which Starch can be converted into Grape-sugar. How is this sugar distinguished from Cane-sugar, and how is it detected in a solution? 8. Describe the preparation and composition of ordinary Aldehyde. What are its leading properties? How is Chloral-hydrate prepared? What is its composition, and how is it related to ordinary Aldehyde?

Part II.—*Materia Medica and Pharmacy*.—1. Give an account of the action of Digitalis. What are the doses of this drug and of its preparations? 2. What are the official compounds and preparations containing Arsenicum? Give the strength of the preparations, and the doses of all. What is the action of Arsenious Acid? 3. Give the preparations of Ergot, Colchicum, and Ipecacuanha, and the composition of the Pulvis Ipecacuanhæ Compositus and Pilula Ipecacuanhæ cum Scilla. Mention the composition, strength and dose of the Hypodermic Injection of Ergotin. 4. Give a description of (a) Chloroform, (b) Iodoform, and an account of the action of each. Enumerate their preparations, and mention the doses of those used internally. 5. Describe the action of the following Sulphates:—Sulphate of Iron, Magnesium, Quinine, Sodium, Zinc, and give the dose of each, 6. What is the source of Pilocarpine? Give an account of its action. How would you administer it, and in what dose?

Part III.—*Elementary Physiology*.—1. How would you recognise under the Microscope—A. The varieties of Muscle; B. A Medullated Nerve-fibre? 2. How does Plasma differ from Serum, and how may each be obtained from Blood? 3. What is the composition of the Atmosphere? How does expired differ from inspired Air? What are the chief changes produced in the Blood by Respiration? 4. What are the chief constituents and uses of the Gastric and Pancreatic Juices? 5. In starvation, the body-temperature is reduced. Explain this. 6. What is meant by A. Afferent Nerve, B. Efferent Nerve, C. Nerve-Centre? Give instances of their use.

SECOND EXAMINATION.

Anatomy.—1. Enumerate the bony surfaces which form the anterior fossa of the base of the Skull. What markings and foramina are there in this fossa, and what do those foramina respectively transmit? 2. Give the origin, course, and distribution of the External Popliteal Nerve and its branches. 3. Describe the origin, course and distribution of the Arteries which anastomose in the fossæ of the Scapula. 4. Describe the dissection of the anterior part of the Perineum down to the superficial layer of the triangular ligament. 5. Give the position, relations, connexions, and arterial supply of the Stomach. 6. Give the origin, insertion and nerve-supply of the following Muscles:—(a) Levator Anguli Scapulae. (b) Flexor Sublimis Digitorum. (c) Rectus Abdominis. (d) Adductor Magnus.

Physiology.—1. Describe the act of Deglutition, including its Nervous Mechanism. 2. Describe the Mucous Membrane of the Uterus. State the changes which occur at the Menstrual period and during Gestation. 3. Explain the effects of the Respiratory Movements on the Circulation of the Blood. 4. State and explain the effects of Exercise on the Excreta. 5. Describe the Structure, Action, and Nervous Mechanism of the Iris. 6. Give the structure of Adipose Tissue. What is the Chemical Composition of the Fats contained in it? From what constituents of Food may Fat be formed?

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