# Ontario College of Pharmacy.

## Semi-Annual Senior Examinations, December, 1800

### PRESCRIPTIONS.

Examiner -- J. Tolbett Pepper; Time allowed; two hours.

- 1. Give English translations for the following Latin words: Meridies, statim, calidus, medicamentarius, vitrum, Jecur, jusculum, octarius, signatura, sudare.
- 2. Render into full Latin form with the proper endings and abbreviations:

Bis. ind.—Coch. magn.

C. n. — D. In p. ocq.—Tet. dol.

3. Translate the following prescription into English, and note any errors in dose of incompatibilities:

#### Recipe:

Bismuthi subgillatis, drachmas tres. Bismuthi subnitratis, drachmas duas. Ammonii Bromidi.

Sodii Bromidi, ana, semiunciam— Extracti belladonnæ fluidi, semidrachmam—

Extracti cascaræ sagradæ fluidi, drachmas sex.

Spiritus chloroformi, drachmas duas. Aquæ ad uncias octo.

Misce et signetur. Capiat æger drachmas duas ter in die una hora post cibos cum aqua parva.

#### Recipe:

Gummi ammoniaci, drachmam dimi-

Pulveris rhei, scrupulum.

Syrupi simplicis, quantum sufficit.

Ut fiant pilulæ vigntii. Capiat per duas noctes quatuor, et intermittat tertiam noctem; et sic pergat donec totum sumpserit.

- 4. Translate the following: Capiat cochlearia tria magna post jentaculum et post prandium quotidie. Sumat unciam omni semihora, donec dolor mitescat. Stent in lagena bene obturata per triduum, et deinde sit in promptu pro potu cathartico. Macera per horam integram, dein cola et adjice syrupi, fluidunciam dimidiam. Misce. Detur semiuncia vel cochleare amplum omni semihora, donec vomitum proritaverit.
- 5. Mention five only articles in Part I., Schedule "A," of "The Pharmacy Act," and five only in Part II., of the same Schedule
- 6. Give P. B. 1898, doses of the following: Potassii iodidum, I'q. ext. ergotte, ferri et quin, citr., ext. cascara, sagrada, Caffeina, hydrarg, subchlor, tinct.

aconiti, tinct. rhei co., pulv. opii co., pepsinum.

Values-10, 10, 10, 10, 20, 10, 10.

#### CHEMISTRY.

Examiner: GBo. A. Evans, Phm. B Time allowed:

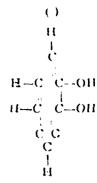
1. Explain the following terms:

Molecule, synthesis, basic oxide, vapor density, isomerism, mercaptan.

- 2. Write an account of the chemistry of icdine.
- 3. Advance facts in support of the statement that lithium, sodium, potassium, subidium, and caesium belong to the same natural family in the periodic system of the elements.
- 4. A quantity of barium dioxide is suspended in water and decomposed by dilute sulphuric acid. If 23.3 grams of barium sulphate are formed, what volume of oxygen at 39°C. and 800½ will be set free on boiling the solution of hydrogen dioxide?

Ba 
$$O_2 + H_2 SO_4 = \text{Ba } SO_4 + H_2 O_2$$
  
 $H_2 O_2 = H_2 O + O$   
(at. wt. Ba = 137).

- 5. Illustrate by equations the reactions of:—
  - (a) Sulphuric acid with ethyl alcohol.
- (b) Hydrochloric acid with ammonia gas.
- (c) Stannous chloride in excess with mercuric chloride in solution.
- (d) Water with normal bismuth nitrate in acid solution.
- 6. (a) Describe the preparation of reduced iron.
- (b) State the properties of chemically pure as well as of commercial iron.
- (c) Give oxides of iron with a list of corresponding series of saits, and briefly, how two salts of each series may be prepared.
- 7. A solution contains a lead, a silver and a mercurous salt. Show how the metal of each may be separated and afterwards identified by confirmatory tests.
- S Name the substances represented by the following graphic formulæ:



(d) Write the structural formulæ of: Trichlor-methane, formaldehyde, ethyl ether, dimethyl-ketone, proponic acid.

9 and 10. Oral examination.

Values—10, 12, 10, 10, 8, 2, 3, 7,10, 8, 20.

#### MATERIA MEDICA.

Examiner . D. S. Sager. Time allowed two hours.

- 1. Buchu.—(a) Mention the different varieties. (b) Give the constituents and specify the active principle. (c) Mention five drugs, official or non-official, containing a principle anatogous to that of the most important one in Buchu. (d) Habitat. (e) Preparations.
- 2. Cantharides.—(a) Describe it. (b) How and from what obtained? (c) Constituents. (d) Active principle and percentage of same. (e) State adulterations of the whole and powdered drug, and give a practical test for detecting them in the powdered article. (f) Preparations of cantharides.
- 3. Castor Oil.—(a) From what and how obtained? (b) Mention the different methods of obtaining it. (c) State the percentage yield of oil. (d) Give fully its characters. (e) And its constituents. (f) What are its adulterations?
- 4. Ipecacuanha. (a) Describe its gross appearance. (b) Give its constituents, (c) active principle and percentage of same. (d) Habitat. (e) Medicinal properties and dose. (f) Mention any other drugs belonging to the same natural order. (e) Preparations of ipecae with doses.
- 5. Licorice Root.—Give (a) constituents, and specify the active principle. (b) Habitat. (c) Preparations. (d) State the average amount of extract obtained from the root. (e) What are the adulter ations of the extract, and how would you detect them?
- 6. Myrrh.—(a) From what and how obtained? (b) Name its constituents. (c) Habitat. (d) Mention all other B.P. drugs of the same class as myrrh. (e)