

MATERIA MEDICA AND THERAPEUTICS.

TUESDAY, 23RD MARCH, 1875:—9 TO 11 A.M.

Examiner,.....PROFESSOR A. H. KOLLMYER, M.D.

1. What are counter-irritants? How are they classified? And name an example of each variety.
2. Describe the different cinchona barks that are officinal. What is the most important alkaloid found in them? What are its chief actions, and its dose.
3. Write a prescription for a pill, having iron for its *remedium*, with a suitable *adjuvens*, *corrigenens* and *vehiculum*; and state the reasons why each ingredient is employed.
4. Give the botanical name of meadow saffron, describe the parts used in medicine, the active principle, and mention the disease in which it proves more especially serviceable.
5. State the quantitative composition of the following preparations, and mention the reasons why each ingredient is ordered, and give the ordinary dose of each preparation respectively.
Pulv. Ipecac Comp., B.P. Liq. Morphia Hydrochlor., B. P. Sol. Morphia Sulph. U. S. Disp.
6. Describe the actions, uses, and doses of Ammonia Carb.

CHEMISTRY.

TUESDAY, 23RD MARCH, 1875:—11 A.M. TO 1 P.M.

Examiner,.....PROFESSOR G. B. SHAW, M.A., M.D.

1. Name the Molecular Forces, and state how they differ from the force of gravitation.
2. Explain what takes place when a Solid is dissolved in a Liquid, and why solution is favourable to chemical action.
3. Explain the difference between the solid, liquid and gaseous states of Matter.
4. State some of the characteristics of Chemical Affinity, and what conditions promote its action?
5. Mention the characteristic properties of a Metal. Name the heaviest and lightest metal, and some of the best conductors of heat and electricity.
6. Demonstrate by equation the process of formation of the Ether, the Alcohol, the Aldehyd and the Acid from the compound radical Ethyl.

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