

PHYSIOLOGY.

1. Describe Cartilage:—Histology, varieties and uses of each variety.
2. Describe the red corpuscles of the blood—Size, chemical composition, microscopical appearances, and their reactions to water, acetic acid and alkalies, and carbonic acid gas.
3. What are the causes of 1st and 2nd sounds of the heart?
4. Explain the nature of the secretion of bile, the uses of bile, and the tests for the bile acids.
5. Explain the formation of the blastodermic membrane, and the make up of the samataplue and splanchnoplue.
6. Where is urea formed, amount excreted daily, method of ascertaining quantity contained in a given sample of urine?
7. What ferments are contained in pancreatic juice, their nature and actions?
8. What is the difference between the blood contained in the splenic artery and that in the splenic vein?

MATERIA MEDICA AND THERAPEUTICS.

1. What is a Blenorrhagic? Name those which are official, and state the origin, effect and uses of Turpentine and Cubebs.
2. Describe the Physiological action of Belladonna.
3. Define the term Antiseptic, and describe the action and uses of Salicylic Acid.
4. Name the official preparation of Metallic Mercury, and state the uses and preparations of Mercuric Chloride.
5. Cantharides; state its origin, constituents, preparations with their doses.
6. Name the chief anthelmintics, and state the origin, constituents, uses and preparations of male fern.

CHEMICAL PHYSICS AND CHEMISTRY.

1. Explain and illustrate what is meant by latent heat of steam.
2. Account for refraction of light in passing from rarer to denser medium.
3. Mode of preparation, characters, tests for detection of Prussic Acid. Strength of B. P. Acid?
4. Describe and characterize any three of following Anhydrides:—Carbonic, Sulphurous, Nitrous, Salicylic, Arsenious, Phosphoric.
5. Select three of following metals, and describe one salt of each employed in Medicine, stating characters and uses: Bismuth, Iron, Lithium, Magnesium, Potassium.
6. Give general formula for alcohols; name and characterize those present in Meth. Spts.
7. Trace changes starch undergoes when boiled with a dilute acid. Indicate also the action of Malt Extract, Pepsin and Pancreatin on Starch.