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CHEMISTRY.

JUNIOR CLASS.

1. Describe the method of preparing hydrogen ; give the theory of the process.
2. Describe the method of preparing chlorine, give the theory of the process, and mention the principal properties of the gas.
3. How may the presence of sulphuric acid be detected ?
4. What is the composition of the so-called chloride of lime ?
5. Give the method of preparing caustic potassa.
6. Give the best method of preparing iodide of potassium.
7. What is the antidote for oxide of lead, and the reason of its efficacy ?
8. What is the antidote for corrosive sublimate ?
9. Give the method of preparing white precipitate, and state its composition.
10. Give the different methods of detecting arsenic.
11. Mention the best antidote for white arsenic, and explain its action.
12. How is hydrocyanic acid prepared, how is its strength estimated, and its presence detected, and what is the antidote for it ?
13. How is opium detected ?
14. Mention the alkaloids contained in opium, and give the method of preparing morphia ?
15. What alkaloids are contained in cinchona bark, and how are they extracted ?
16. Mention the substances usually employed for adulterating the sulphate of quinine, and state how they may be detected.
17. Give the method of preparing and detecting oxalic acid, and mention the best antidote.
18. Mention the principal constituents of urinary calculi.
19. Mention the principal constituents of blood.
20. Of what do biliary concretions consist, and in what other parts of the body is this substance found ?
21. What is the composition of gouty concretions, and how may the acid contained in them be detected ?
21. Explain the cause of animal heat.
23. Explain why milk, from its chemical constitution, is so well adapted for nourishment in the first periods of life.

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