

## Practical Formulæ.

### *Phosphorus Paste.*—

Take of Starch, 8 ounces.  
 Flour, 24 ounces.  
 Glycerin, 24 fluidounces.  
 Water, 3 pints.  
 Phosphorus, 2 ounces.

Upon the unpulverized starch placed in a convenient vessel, pour one pint of water, stir up the mixture and pass it through a No. 60 sieve into a cast iron enameled dish having the capacity of a gallon; add one and a half pints of water, then the flour, and mix thoroughly, now introduce the glycerin and apply heat, best by means of a sand bath, until the plasma begins to form, stirring in the meanwhile constantly with a suitable pestle; then take the vessel from the fire and stir as before while the plasma forms, so as to evenly divide it. After a few minutes re-apply heat, stirring briskly until the plasma has completely formed, and then set it aside to cool, stirring it up occasionally. Now place six ounces of the plasma, gradually mixed with eight fluidounces of water, into a porcelain measure having the capacity of two pints; set this into nearly boiling hot water, and when the mixture has become sufficiently hot, drop in about two drachms of the phosphorus. When this has fused, agitate the whole thoroughly with a spatula or pestle, and incorporate the remainder of the phosphorus in the same manner. By this manipulation the phosphorus is effectively extinguished, without the risk of coming in contact with the air in an inflammable condition. After this thicken the phosphoric emulsion with more of the reserved plasma, and finally incorporate it thoroughly with the remainder. The finished preparation is best preserved in small wide-mouthed bottles, protected from the air.—  
 R. ROTHER in *Pharmacist*.

*To Obtain Perfect Crystals.*—According to Professor Schulze, such crystals may be obtained from solutions of salts containing gelatine. He exhibited splendid crystals of borax, sugar, etc., which had formed in such solutions, suspended in the fluid without touching the vessel.

### *Cochineal Colour.*—

Take of Cochineal.....	ʒj.
Carb. potassa.....	ʒss.
Powd. alum.....	ʒss.
Cream of tartar.....	ʒj.
Water .....	ʒviiij.