Study 3.9.

Strong Iodine Solution (USP 27)

Iodine 50 g

Potassium Iodide 100 g

Purified Water, a sufficient quantity to make 1000 mL

Grind the 50 g of iodine and 100 g of potassium iodide together in a mortar. Dissolve the mixture in 100 mL of Purified Water, then add Purified Water to make the product measure 1000 mL and filter the product.

Questions:

- 1. What is the percentage of active ingredient in your solution?
- 2. Describe the reasons for the addition of potassium iodide to this preparation.
- 3. What purpose is this solution used for and how is it used?
- 4. What is the maximum dose that can be given to the patient at once and for one day?
- 5. How should this solution be packaged and stored?

Study 3.11.

Iodine Tincture (USP 27)

Iodine 20 g

Sodium Iodide 24 g

Alcohol 500 mL

Purified Water, a sufficient quantity to make 1000 mL

Grind the 20 g of iodine and 24 g of sodium iodide together in a mortar. Dissolve the mixture in 500 mL of alcohol, then add Purified Water to make the product measure 1000 mL and filter the product.

Questions:

- 1. Describe the reasons for the addition of Sodium Iodide to this preparation.
- 2. Describe, the points to be noted during preparation of this preparation together with the reasons.
- 3. Write the intended use of the preparation.
- 4. What are the points to be aware of when working with iodine? Please explain.

3.6.3. Collutories

These are preparations which are used by being touched locally on the lesion of mouth or throat mucosa. In these preparations, the solvent may be glycerin, alcohol or water. They usually contain active ingredients with antiseptic and local anesthetic properties.

Study 3.62.

Iodine Collutory *Glycerine Iode*

| Iodine 2 g | 5 |
|----------------------|---|
| Potassium iodide 4 g | 5 |
| Glycerine (85%) 90 g | , |
| Mint water 4 § | |

Preparation:

Crush iodine and potassium iodide thoroughly with mint water in the glass mortar, and mix with glycerin.

Questions:

- 1. What purposes is this formulation used for? How is it used?
- 2. Write your opinions about the stability of formulations containing iodine and glycerin.