### Practice 32.11.

Ephedrine Hydrochloride Nasal Drop (Remington 20<sup>th</sup> ed.)

Ephedrine Hydrochloride		0.5 g
Chlorobutanol		0.5 g
Sodium chloride		0.5 g
Purified water	q.s.	100 ml

### Practice 32.12.

Oxymetazoline Hydrochloride Nasal Spray

Oxymetazoline Hydrochloride	5	mg
Benzalkonium chloride	1.5	g
EDTA	5	mg
pH 6.0 phosphate buffer	10	ml

### Pratice 32.4.

Silver Nitrate Eye Drop

15 ml, prepare an isotonic 1% silver nitrate solution.

## Practice 32.15.

Aluminum Sulphate Ear Drop

Aluminum Sulphate	225 g
Acetic acid (% 33)	250 ml
Tartaric acid	45 g
Calcium carbonate	100 g
Purified water	750 ml

## Practice 32.16.

Phenolic Ear Drop		
Phenol-Glycerine* Glycerine	q.s.	40 ml 100 ml
* Phenol-Glycerine Phenol Glycerine		160 g 840 g

# Practice 32.17.

Sodium Bicarbonate Ear Drop (Remington 20<sup>th</sup> ed.)

Sodium bicarbor	nate	5 g
Glycerine		30 ml
Purified water	q.s.	100 ml

#### Practice 31.10.

**Dialysis Solution** 

		Molecular weight
	214.800 g	58.5
	2.612 g	74.6
	7.720 g	147.0
	3.558 g	203.0
	4.207 g	60.0
q.s.	1000.000 ml	
	84.0 g	84.0
q.s.	1000.0 ml	
	q.s. q.s.	214.800 g 2.612 g 7.720 g 3.558 g 4.207 g q.s. 1000.000 ml 84.0 g q.s. 1000.0 ml

### **Preparation:**

Solution I and Solution II are mixed at specific ratios and diluted with water obtained by reverse osmosis. (Solution I + Solution II + Water obtained by reverse osmosis method: 1 liter + 1.225 liter + 32.775 liters)

### **Questions:**

- 1. Why should this formulation be prepared with water obtained by reverse osmosis?
- 2. Calculate the amounts of mEq / 1, mmol / 1 and total solution osmolarities of Na  $^+$ , K  $^+$ , Ca  $^{+2}$ , Mg  $^{+2}$ , HCO<sub>3</sub><sup>-</sup>, Cl<sup>-</sup>, and CH3COO<sup>-</sup> in the prepared solution.
- **3.** What is the pH of the diluted solution?
- 4. How is this solution used?
- 5. What are the characteristics of the ideal dialysis solution?