

# Dispensing of drugs

## *Experiment 1 :-*

### *Rx :-*

Zinc sulphate ..... 0.1 g

Distilled water..... ad 20 ml

Ft.....eye drops

Sig. 2-3 drops for the eye 3 times daily .

### *Procedure :-*

- 1- Weight the required amount of zinc sulphate .
- 2- Dissolved zinc sulphate in about 10 ml distilled water in graduated cylinder.
- 3- Shake or stir by a glass rod until dissolved.
- 4- Add d.w. up to required volume (up to 20 ml).
- 5- Filter through filter paper in to a bottle .
- 6- Stopper the bottle and label it .

## *Action and uses of zinc sulphate*

### *(indication):-*

- 1- The salt of zinc are employed as astringents , antiperspirants , corrosive and mild antiseptic .
- 2- Zinc sulphate eye drop is used in angular conjunctivitis.
- 3- Zinc sulphate also applied topically in a 10% aqueous solution is highly effective in treatment of foot rot in sheep.
- 4- For application to the skin zinc sulphate is used in concentration of 4% , it used in skin diseases and infection impetigo

## *Experiment 2:-*

Iodine .....5 g

potassiumiodide.....5 g

distilled *Rx* :-

water.....5 ml

alcohol 90%..... up to 200 ml

Ft. tincture..... 20ml

Sig .to be used for wounds .

## *Procedure :-*

- 1- Weight the required amount of iodine and potassium iodide .
- 2- In a graduated cylinder ,dissolved the potassium iodide in the distilled water then add the iodine and shake well until dissolved .
- 3- Add alcohol 90% up to the required volume .
- 4- Transfer to a bottle and label.

## *Action and uses :-*

- 1- Iodine apparently diffuses in to the bacterial cell where its interference with vital metabolic reaction of the protoplasm results in the death of the cell .
- 2- Bacterial spores and vegetative forms are killed by effective concentrations.
- 3- Tincture of iodine 2% is an excellent antiseptic compound when applied to the skin , its produce minimal irritation , spread evenly , dries slowly and in 3 minutes reduced the resident bacterial flora to less than 10% of its originalpopulation .

- 4- Tincture of iodine is used by surgeons and general practitioners for application before surgical incision or hypodermic injection .
- 5- Its sometimes used for wounds .
- 6- Tincture of iodine has been also used for the treatment of various skin diseases caused by fungi and ectoparasites .