

# EDUCATION REGULATION 1991

FIRST YEAR

APRIL 2018

**Time 3 hours**

**Maximum marks:80**

**Note:** 1) Answer any 8 questions

2) All questions carry equal marks(**10marks**)

3) Draw diagrams wherever necessary

1. Give the method of preparation, properties, chemical incompatibility, storage conditions and uses of following

a) Sodium Thiosulphate

b) Sodium Hydroxide

2. Enumerate and explain the various sources of impurities in Pharmaceutical preparations.

3. Give an account of a) Rochelle salt b) Mild Silver Protein

4. Classify the Gastrointestinal agents with examples. Give the storage conditions and uses of any four of them.

5. Define radio activity. Explain the properties of alpha, beta and gamma rays.

6. Discuss the physical, chemical properties, medicinal uses and storage conditions of

a) Alum

b) Carbon di oxide.

c) Pottassium Permanganate

d) Bismuth sub carbonate

7. Explain the principle involve in the assay of following

a) Boric Acid

b) Iodine

8. Discuss the Preparation, properties, assay, medicinal uses and storage conditions of the official compounds of Iron.

9. a) What are the various mechanisms which maintain the acid base balance in our body?

b) Explain the assay of potassium chloride by Mohrs method.

10. Write notes on

a) Povidone-iodine

b) Sulphur compounds as topical agents

