Hemchandracharya North Gujarat University, Patan

Bachelor of Vocation

'Pharmaceutical Chemistry' Semester - III

END TERM Examination, February, 2016

Subject: Pharmaceutical Inorganic Chemistry

Subject code: PC-315

Time: 2 hrs **Date:05/02/2016** **Maximum marks: 50**

Q.1 Answer any 9 questions. Each question carries 1 mark. (9*1=9Marks)

1. Comment: dilute nitric acid is added in the limit test of chloride.
2. Match the followings:

Name of compound	Category
1. Titanium dioxide	a.Antimicrobial
2. Hydrogen peroxide	b.protective
3. zinc sulphate	c. Astringent

3. Write down the synonyms for followings:
   1) Boric acid
   2) Sodium hydroxide
4. Write down the chemical formula for followings:
   hypophosphorous acid & sodium bisulfite
5. Write down the synonym for Rochelle salt and Epsom salt.
6. Write down structure of disodium EDTA.
7. Comment:ammonium chloride is added in the assay of zinc oxide.
8. Match the followings:

Name of compound	Assay principle
1. Silver nitrate	a.compexometric titrtaion
2. zincoxide	b.precipitation titration
3. zinc sulphate	c. redox titration
4. iodine	d.acidimetry-alkaimetry

9. Enlist the types of pharmaceutical water.
10. In limit test for iron Ferrous thioglycolate has stable pink to reddish purple colour in ..... medium.

Q. 2 Answer any 5 questions. Each question carries 4 marks. **(5*4=20 Marks)**

1. Write a note on limit test for sulphate.(principle,reaction,procedure)
2. Write down the principle & procedure for assay of potassium permanganate.
3. Write down the principle & procedure for assay of sodium hydroxide.

4. Define and classify topical agents with examples.
5. Define and classify pharmaceutical aids with example.
6. Define and classify gastrointestinal agents.

Q.3 Answer any 3 question. The question carries 07 marks **(3*7=21 Marks)**

1. Write down preparation, properties, assay principle, procedure and uses of zinc oxide.
2. Define antioxidants. write down examples of antioxidants used in pharmaceutical industries and explain any one in detail.
3. Define acidifying agent and explain monograph of HCl.
4. Write a note on source of impurities.

BEST OF LUCK