

**Pramukh Swami Science and H D Patel Arts College**

Bachelor of Vocation

Pharmaceutical Chemistry Semester III

Mid SEM Examination, November 2015

**Subject: PC315 (Pharmaceutical Inorganic Chemistry-I)**

Time: 2 hrs

Date: 06/11/2015

Marks: 60

**Q.1 Answer any 12 questions. Each question carries 1 mark.**

**[12\*1=12]**

1. Define the following terms: bacteriostatic and bactericidal
2. Write down the chemical formula for purified talc.
3. Comment: ammonium chloride is added in the assay of zinc oxide.
4. Match the followings:

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

5. Match the followings:

Name of compound	Assay principle
1. Silver nitrate	a. complexometric titration
2. zinc oxide	b. precipitation titration
3. zinc sulphate	c. redox titration
4. iodine	d. acidimetry-alkalimetry

6. Write down the synonyms for followings:
  - 1) Boric acid
  - 2) Calcium hydroxide.
7. Define antioxidant
8. Enlist the types of glass.
9. Write down the chemical formula for followings: phosphoric acid, hypophosphorous acid
10. Nitrous oxide is
  - (a) analgesic
  - (b) anaesthetic
  - (c) both (a) and (b)
  - (d) none of these
11. According to Bronsted-Lowry concept, acid is
  - (a) proton donor
  - (b) electron donor
  - (c) proton acceptor
  - (d) electron acceptor
12. Define buffer
13. True/False:

Glycerin is added in the assay for boric acid.

**Q.2 Answer any 5 questions. Each question carries 04 marks**

**[5\*4=20]**

1. Write down preparation, assay principle, assay procedure and uses of Phosphoric acid.
2. Write a note on pharmaceutical water.
3. Define and classify topical agents with examples.
4. Write down the principle & procedure for assay of hydrogen peroxide.
5. Define and classify pharmaceutical aid.
6. Write down preparation, assay principle, assay procedure and uses of potassium permanganate.

**Q.3 Answer any 4 questions. Each question carries 07 marks**

**[4\*7=28]**

1. Write a note on buffer systems.
2. Write down the monograph of zinc oxide.
3. Write down the monograph of boric acid.
4. Write down examples of antioxidants used in pharmaceutical industries and explain any one in detail.
5. Write down note on glass used in pharmaceutical industries & types of test employed for glass.

---

*Best of Luck*

---