

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm., Winter 2017-18 Examination

Semester: 1**Subject Code: 08101101****Subject Name: Pharmaceutical chemistry-I****Date: 08/01/2018****Time: 10:00 am to 1:00 pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay type Questions. (Any 2 out of 3) (20)

1. Define limit test. Explain limit test for chloride. Write a note on Gutzeit test.
2. Define and classify antacid. Write ideal properties of antacid. Write a note on Aluminium hydroxide gel.
3. Enlist major intra and extra cellular electrolyte. Discuss the physiological importance of sodium and potassium ions. Discuss monograph of ringer injection.

Q.2 Short Essay type Questions. (Any 7 out of 9) (35)

1. Give preparation, assay and uses of ammonium chloride.
2. Discuss Oral Rehydration Salt.
3. Write note on combination of antacid preparation.
4. Write a brief note on sources of impurities in pharmaceuticals.
5. Enlist various methods for softening the hard water? Discuss any one in detail.
6. Define antimicrobial agents. Discuss its mechanism of action.
7. Define anticaries agent. Write down brief note on sodium fluoride.
8. Define protectives. Discuss in brief hydrogen peroxide solution.
9. Explain buffer capacity in brief. Discuss bronsted acid base theory.

Q.3 Answer in short. (20)

1. Discuss role of Thioglycolic acid in the limit test for iron.
2. What are topical agents?
3. Define expectorants and emetics.
4. Justify: Glycerin is added in the assay of boric acid.
5. Give synonym and use of green vitriol.
6. Write down storage condition for nitrous oxide and oxygen.
7. Define Pharmacopoeia and Molarity.
8. Give preparation of Sodium nitrite.
9. What are saline cathartics?
10. Distinguish between : Hypochlorhydria and Hyperchlorhydria