

PARUL UNIVERSITY
FACULTY OF PHARMACY
Pharm.D November – 2019-20 Examination

Year: 1**Subject Code: 08207105****Subject Name: Pharmaceutical Inorganic Chemistry****Date: 29/11/2019****Time: 10:00 am to 01:00pm****Total Marks: 70****Instructions**

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

Q.1 Essay Type Questions. (any 2 out of 3) (15 Mark Each) (30)

1. Define radioactivity. Mention the various units of radioactivity. Explain Geuger-Muller counter.
2. Explain the principle of acid-base titrations. Write a note on neutralization curves. Add a note on mixed indicators.
3. What is complexometric titration? Mention its application? Explain about masking and demasking agents.

Q.2 Short Essay Type Questions. (any 4 out of 5) (5 Mark Each) (20)

1. List out various volumetric methods. Explain redox titration with suitable examples.
2. What is cerimetry? Mention about its advantages.
3. What are electrolyte replenishers? Write a note on ORS.
4. Explain the different theories of pH indicators.
5. Define accuracy and precision. How can the errors be minimized?

Q.3 Short Answers. (2 Mark Each) (20)

1. Write the principle involved in Mohr's titration.
2. What is gravimetry? Enumerate the experimental techniques of gravimetric analysis.
3. Give a list of solvents and indicators used in non-aqueous titrations.
4. Why citric acid is added in the limit test of iron.
5. Explain the principle involved in the limit test for chlorides.
6. What are medicinal gases? How are they produced?
7. Define acidifiers with suitable examples.
8. Enlist ideal properties of antacids.
9. Define dentifrices? Explain the role of fluorides in dental caries.
10. Explain the physiological role of iodine.