

**I B.Pharmacy I Semester Supplementary Examinations, Feb. 2015**  
**PHARM. INORGANIC CHEMISTRY-I**

Time: 3 hours

Max Marks: 75

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) Explain the qualitative tests for the following cations :  
(i) Zinc (ii) Magnesium (iii) Ferrous  
(b) Explain the qualitative tests for the following anions:  
(i) Carbonate (ii) Iodide (iii) Tartarate [8+7]
2. Explain the principle and procedure involved in the limit test for  
(a) Iron  
(b) Heavy metals [8+7]
3. (a) What are major physiological ions? Explain the biological importance of sodium and potassium.  
(b) Write the method of preparation and uses of sodium chloride and potassium chloride. [8+7]
4. write short notes on the following :  
(a) Dialysis fluids  
(b) O R S  
(c) Biological importance of magnesium [3x5=15]
5. Explain the principle and procedure involved in the assay of  
(a) Magnesium oxide  
(b) Sodium acid phosphate  
(c) Calcium carbonate [3x5=15]
6. Discuss preparation, assay and uses of sodium citrate and  $Al(OH)_3$  gel [7+8]
7. Write short notes on  
(a) titanium dioxide and ferric oxide.  
(b) Aluminium stearate  
(b) bentonite  
(d) calcium carbonate [4+4+4+3]
8. Discuss in detail about  
(a) talc.  
(b) bentonite  
(c) colloidal silica [5+5+5]

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