

# **2012 Scheme**

**QP CODE: 111006**

**Reg. No: .....**

## **First Year B.Pharm Degree Supplementary Examinations September 2021**

### **Pharmaceutical Chemistry - I (Inorganic & Physical Chemistry)**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Write equations wherever necessary.*

**Essay**

**(3x10=30)**

1. Explain the principle and reaction involved in the limit test of arsenic. Describe the procedure for the limit test of arsenic with a neat diagram (5+5)
2. What are protectives. Give the identification test, test for purity and medicinal uses of zinc oxide and calamine.
3. Define colligative properties. Discuss each properties in detail.

**Short notes**

**(14x5=70)**

4. What are antacids. Classify antacids giving examples.
5. Explain the mechanism of saline cathartics and give the identification test, storage and uses of Magnesium sulphate.
6. What are antidotes. Write a note on sodium nitrite and its uses.
7. Discuss about electrolyte combination therapy.
8. Comment on the applications of coordination compounds in Pharmacy and give the medicinal importance of Dimercaprol and Penicillamine.
9. Explain the physiological role of Zinc and Copper.
10. Comment on physiological acid base balance and explain acid base disorders.
11. Give the principle and procedure for the limit test for sulphates
12. Derive an expression of Langmuir adsorption isotherm.
13. Describe kinetic molecular theory of gas and explain how ideal gas differs from real gas.
14. Explain the measurement of radioactivity by Geiger Muller counter.
15. What are suspending agents. Give the test for purity, identification test and uses of Bentonite.
16. Explain antidotes. Mention uses of activated charcoal.
17. Give the preparation, assay, storage and uses of calcium gluconate.

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