

QP CODE: 105326

Reg. No: .....

**First Year Pharm D Degree Supplementary Examinations May 2023**

**Pharmaceutical Inorganic Chemistry**

**Time: 3 Hours**

**Total Marks: 70**

- *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*
- *Draw table/diagrams/flow charts wherever necessary*

**Essays**

**(3x10=30)**

1. What is radioactivity. Explain the properties of different types of radiation and their use. Explain the construction and working of any one instrument used in measurement of radiation. (2+4+4)
2. Explain in detail the various steps involved in gravimetric analysis and the precautions to be taken in each step.
3. Describe the principle, reactions and procedure involved in the limit test for Iron and Sulphates. (5 +5)

**Short notes:**

**(8x5=40)**

4. What are dentifrices. Classify them with examples. Write a note on role of fluoride in the treatment of dental caries.
5. Write the principle and procedure for the assay of copper sulphate.
6. Write the estimation of strong and weak acids with examples.
7. Explain the theory of redox titrations.
8. Write the preparation, assay and use of magnesium sulphate.
9. Define and classify errors with examples.
10. Explain the composition and use of ORS.
11. Write in detail on: a) Antidotes b) G M Counter.

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