

Rajiv Gandhiwwnivensity of Health Sciences First Year M.Pharm Degree Examination – May 2013

[Time: 3 Hours] [Max. Marks: 100]

PHARMACEUTICAL AND COSMETIC ANALYSIS

(RS 2 & RS 3)

Q.P. CODE: 9222

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- 1. a) Briefly discuss the principles and procedures involved in argentimetric analysis with examples.
 - b) Explain various thermo analytical methods of analysis.
- 2. a) State titrimetric analysis. Discuss in detail nevtralisation curves of strong acid v/s weak base and reactions in titrimetric weak acid v/s weak base.
 - b) Describe the preparation, standardization and application of Cericammonium sulphate and titanous chloride.
- 3. a) Briefly explain the powder analysis techniques in quantitative microscopy and also discuss applications of microchemical tests in pharmacy.
 - b) Explain the quality control of any two cosmetic products.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. What are ligands? Explain in detail the various types of ligands with examples and also point out the applications of masking and de-masking agents.
- 5. Discuss principles and procedures involved in gravimetric analysis with its applications.
- 6. Discuss the principles and applications of conductometric titrations.
- 7. Describe the complexmetric titrations involving direct titration of polymetalic system with sodium editate.
- 8. What do you mean by redox titrations? Discuss any two types of redox titrations.
- 9. Explain various steps in identifying and quantitative determing of preservatives in pharmaceutical formulations.

SHORT NOTES 2 X 5 = 10 Marks

- 10. State the principle and reaction involved in the assay of Bisacodyl suppositories I.P. 1996.
- 11. What are the secondary standards? Write an example and various properties of primary standard.

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