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# Rajiv Gandhi University of Health Sciences

## First Year M.Pharm Degree Examination – Nov 2011

[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) Explain Volhard's and modified Volhard's method for the estimation of Halide with suitable examples.
   b) Explain the quality control of tablets.
2. a) Briefly discuss the determination of water by titration with Karl Fishcer Reagent (KFR).
   b) What are pM indicators? Explain in detail the principles and applications of pM indicators in complexometric titrations
3. a) Discuss briefly various pharmaceutical applications of electro-analytical methods like potentiometry, polarography and amperometry.
   b) Write in detail the various qualitative and in quantitative determination of emulsifiers and stabilizers in pharmaceutical formulations.

**SHORT ESSAY (Answer any FIVE)** **5 X 10 = 50 Marks**

4. State the pharmaceutical applications of redox titrations with suitable examples from official drugs in I.P. 1996.
5. Write in detail the principles and procedures of non-aqueous titrations involving halogenated salt of bases.
6. Briefly describe the theory, and applications of acid base indicators
7. Discuss principles and applications of titration involving the displacement of one complex by another.
8. Write a note on safety for cosmetic products.
9. Give a detail account of principles and applications of high frequency titration.

**SHORT NOTES** **2 X 5 = 10 Marks**

10. Write a brief note on diazotization titration.
11. Write a note on thermo-gravimetric analysis with examples.

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