

# Rajiv Gandhi University of Health Sciences, Karnataka

## First Year M. Pharm Degree Examination – May 2016

**Time: Three Hours****Max. Marks: 100 Marks**

### PHARMACUTICAL AND COSMETIC ANALYSIS

(Revised Scheme 4)

**Q.P. CODE: 9358**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary

**LONG ESSAYS (Answer any Two)****2 x 20 = 40 Marks**

1. Explain the quality control tests of crude drugs-ash value, extraction values, powder analysis and quantitative microscopy.
2. What is diazotization titration? Explain the principle and procedure involved in Diazotization titration with example. Briefly explain pH measurement in potentiometry.
3. Define a) Migration current b) Diffusion current c) Limiting current. Describe the principle and pharmaceutical application of Amperometry.

**SHORT ESSAYS (Answer any FIVE)****5 x 10 = 50 Marks**

4. Explain the quality control test for: a) baby care product b) Hair care product and c) Eye shadow.
5. Explain the theory of acid-base titration. Discuss the principles and application of redox titration with examples.
6. Write the principle involved in different types of argentimetric titration with examples.
7. What are ligands? Describe with their types. Explain the assay procedure for 2 official drugs in IP 1996 involving complexometric titration.
8. Describe the quality control protocol for ophthalmic preparations and suppositories.
9. Write a note on conductometric titrations.

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

10. Discuss about safety and legislation for cosmetic product.
11. Identification and determination of preservatives.

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