



# Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination – Oct/Nov 2014

**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. a) Chalk out quality control tests for tablets and ointments.  
b) Discuss quality control study of skin care products and baby care products. (10+10)
2. Write the principle and pharmaceutical applications of  
a) pH measurements b) Polarography. Explain the construction and working of glass membrane electrode. (14+6)
3. a) Classify titrimetric analysis? Explain theory of acid base titration. Write note on neutralization curve of strong acid v/s strong base.  
b) Describe diazotization titration with two examples and applications. (12+8)

### SHORT ESSAYS (Answer any FIVE)

**5 x 10 = 50 Marks**

4. Discuss displacement titration of one complex by another. Explain direct titration of polymetallic system with examples.
5. Write a detail note on fibre content and quantitative microscopy of crude drugs.
6. Discuss the principle and instrumentation of thermo analytical method.
7. Discuss the principle and pharmaceutical application of cerimetry and bromometry with assay example of official drugs in IP.
8. Describe the concept of precipitation and digestion in gravimetric analysis with examples.
9. How do you identify and determine the coloring materials and stabilizers in pharmaceutical formulations.

### SHORT NOTES

**2 x 5 = 10 Marks**

10. How you will determine the water content by Karl Fischer method.
11. Write note on pM indicators.

\*\*\*\*\*