



**Pharmaceutical 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 ESSAY (Answer any TWO)**

**2 X 20 = 40 Marks**

1. Explain the different quality control protocol to assess the quality of the following cosmetic products. (i) Lipsticks, (ii) Hair care products, (iii) Baby care products, (iv) Eye shadows.
2. a) Explain the assay of any two compounds in I.P done by non aqueous titration and potassium iodate.  
b) Write in detail notes on differential thermal analysis.
3. a) Discuss the quality control ointments and creams.  
b) Write the principle and procedures in diazotization titrations.

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Write in brief about the conductometric titrations.
5. Explain the procedures and principles in gravimetric analysis.
6. How will you identify and quantify the antioxidants and preservatives in pharmaceuticals.
7. Explain the neutralization curve of strong acid v/s strong base and weak acid v/s strong base.
8. Explain the principle involved in estimation of drugs by complexometric method and note on pM indicators.
9. Explain the principle and procedures in potentiometry.

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Define ash value and fiber content.
11. Give the identification test for emulsifiers.

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