

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 353]

MAY 2019

Sub. Code: 2914

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH V – PHARMACEUTICAL ANALYSIS
PAPER II – PHARMACEUTICAL AND COSMETIC ANALYSIS**

Q.P. Code: 262914

Time: Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail discussion on in process quality control test for the following pharmaceutical dosage forms.
 - a) Suppositories
 - b) Enteric coated tablets
2. Explain the different methods of analysis to assess the quality of the following cosmetics.
 - a) Shampoo
 - b) Lipsticks

II. Write notes on:

(10 x 6 = 60)

1. Explain in detail about principle and procedure involved in the official (IP 1996) assay of chloroquine phosphate tablets.
2. Discuss residual solvents and its effect on drug stability.
3. Write identification and quantification of Butylated hydroxy anisole and benzoic acid in pharmaceutical formulations.
4. Explain theory and limitations of solid phase extraction.
5. Discuss about ICH guidelines for stability studies of new drug formulations.
6. List out the raw materials used in cosmetic industry and explain quality control test for water.
7. BIS specifications for hair dye.
8. Explain theory and principle involved in estimation of metronidazole tablets (IP1996).
9. Explain toxicity tests carried out in cosmetic preparation.
10. Explain various in process quality control tests in parenteral products.
