

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

[LO 958]

MAY 2019

Sub. Code: 2958

**M.PHARM. DEGREE EXAMINATION**  
**(PCI New regulations 2016)**  
**SEMESTER-II**  
**BRANCH-III – PHARMACEUTICAL ANALYSIS – MPA**  
**PAPER IV – HERBAL AND COSMETIC ANALYSIS**

*Q.P. Code : 262958*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Write a note on preservative raw materials used in cosmetics.  
b) Explain the finished product analysis of Tooth paste and Baby powder.
2. a) Illustrate the protocol for patent the herbal drugs in India.  
b) Explain the challenges in monitoring the safety of herbal medicines.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Explain the various quality control tests employed for Soap.
2. Write the WHO guidelines in quality assessment of herbal drugs.
3. Explain the various quality control tests for shampoo.
4. Explain the determination of heavy metals in cosmetic raw materials.
5. Discuss the monograph of herbal drugs in Siddha pharmacopoeia.
6. Write short notes on Bio-drug adverse reaction.
7. How do you determine the rancidity in hair oils?

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