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

MAY 2018

Sub. Code: 2914

Maximum : 100 Marks

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

Q.P. Code: 262914

Time: Three hours

I. Elaborate on:

- 1. Write the principle and procedure involved in the official assay of the following:
 - a) Calcium gluconate tablets b) Nitrazepam
 - c) Dapsone tablets d) Paracetamol tablets
- 2. Explain in detail about the quality control test for the following:a) After shave lotion b) Tooth powder

II. Write notes on:

- 1. Write briefly about radio chemical analysis.
- 2. Explain about pyrogen test.
- 3. Explain disintegration test for uncoated and enteric coated tablets.
- 4. Discuss theory, merits and demerits of Liquid-Liquid Extractions (LLE).
- 5. Write on anti-microbial testing for cosmetic preparation.
- 6. Explain shelf life prediction of new drug formulations.
- 7. Write ICH guidelines for related substance and impurity detection in drugs.
- 8. How do you assess arsenic and lead in cosmetics?
- 9. List out emulsifiers and stabilizers used in pharmaceutical formulations and explain the quantification of sodium lauryl sulfate.
- 10. How do you evaluate baby powder?

 $(10 \ge 6 = 60)$

 $(2 \times 20 = 40)$

[LM 353]