Sl.No: M19512 Course Code: MPA204T

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

M.PHARM. DEGREE EXAMINATION – December 2018 Second Semester BRANCH: PHARMACEUTICAL ANALYSIS HERBAL AND COSMETIC ANALYSIS

Time: Three hours Maximum: 75 marks

SECTION -A

I. Answer any **THREE** questions:

 $(3 \times 15 = 45)$

- 1. Describe the problems in the validation of herbal therapies. Discuss the pharmacodynamic and pharmacokinetic issues of herbal medicine.
- 2. Enumerate different types of adulterations/ substitutions of herbal drugs with appropriate examples. Explain the different causes and measures to avoid adulterations.
- 3. Discuss the WHO guidelines for the safety monitoring of natural medicine.
- 4. Explain in detail the general methods of analysis of raw materials used in cosmetic manufacture as per BIS.

SECTION -B

II. Answer any **THREE** questions:

 $(3 \times 10 = 30)$

- 5. Describe the drug development process for ayurvedic formulations as per WHO guidelines.
- 6. Discuss the significance and procedure in determining the heavy metal contents and microbial contaminations in herbal formulations.
- 7. Explain in detail the adulterant screening methods using modern analytical instruments.
- 8. Discuss the method of analysis of hair products and skin creams according to BIS.
