

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

**M.PHARM. DEGREE EXAMINATION – July 2019
Second Semester**

BRANCH : PHARMACEUTICAL ANALYSIS

HERBAL AND COSMETIC ANALYSIS

Time : Three hours

Maximum: 75 marks

**(Draw neat labeled diagrams wherever necessary
your answer should be specific to the questions asked)**

SECTION –A

I. Answer any **THREE** questions: **(3 x 15 = 45)**

1. Explain in detail the herbal drug standardization protocols as per WHO guidelines.
2. Enumerate and explain the different methods of DNA finger printing techniques in the identification of natural drugs with suitable diagrams.
3. Write in detail about spontaneous reporting schemes for bio-drug adverse reactions, drug-drug and drug-food interactions with suitable examples.
4. Elaborate the Indian standard specifications laid down for sampling and testing various cosmetics in finished forms.

SECTION –B

II. Answer any **THREE** questions: **(3 x 10 = 30)**

5. Discuss the efficacy of herbal medicinal products with five commonly used medicinal plants.
6. Write about the Indian and International patent laws applicable to herbal drugs and natural products.
7. Discuss the protocol involved in the stability testing of natural products.
8. Write about the different challenges faced in monitoring the safety of herbal medicine.