

**M PHARM**  
**(SEM-II) THEORY EXAMINATION 2018-19**  
**HERBAL AND COSMETIC ANALYSIS**

**Time: 3 Hours****Total Marks: 75****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 10 x 2 = 20**

- a. Describe the misbranded drugs as per Section-33E.
- b. What are the different guidelines used to standardize herbal products.
- c. What is EMEA?
- d. What are different conditions of adulteration?
- e. How will you collect the samples for determination of foreign matter in crude drugs?
- f. What is SSR technique and what is the drawback of this technique?
- g. What is ADR monitoring system?
- h. Define precipitant.
- i. What happens when Aloe Vera interacts with antidiabetic drugs?
- j. Define saponification value.

**SECTION B****2. Attempt any two parts of the following: 2 x 10 = 20**

- a. Discuss in detail about efficacy of herbal products.
- b. Discuss in detail about the regulatory requirements for setting herbal drug industry.
- c. Give a detail account on role of modern analytical techniques in detection and quantitation of adulterants.

**SECTION C****3. Attempt any five parts of the following: 7 x 5 = 35**

- a. Give a detail account on WHO guidelines for standardization of herbal medicinal products.
- b. Discuss in detail about Indian and international patent law as applicable to herbal drugs.
- c. Discuss in detail about DNA finger printing and its application in herbal drug standardization.
- d. Give the protocol for stability testing of natural products and outline the regulation and dispensing of herbal drugs.
- e. Discuss briefly WHO and AYUSH guidelines for safety monitoring of natural medicine.
- f. What do you mean by personal hygiene preparations? Give the general methods of analysis of raw material used in cosmetic manufacture as per BIS.
- g. Discuss in detail about bio drug-drug and bio drug-food interactions with suitable examples.